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ATMOSPHERIC STRUCTURE WHITE SANDS
MISSILE RANGE, NEW MEXICO. PART 2.
TEMPERATURE, RELATIVE HUMIDITY,
DEW POINT, STATION PRESSURE, DENSITY,
CLOUDS, HYDROMETEORS, AND LITHOMETEORS

Marjorie McLardie Hoidale, et al

Army Electronics Command
White Sands Missile Range, New Mexico

April 1974

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| REPORT DOCUMENTATION PAGE | | READ INSTRUCTIONS BEFORE COMPLETING FORM |
|--|-----------------------|---|
| 1. REPORT NUMBER DR-822 | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER |
| 4. TITLE (and Subtitle) Atmospheric Structure, White Sands Missile Range, New Mexico, Part 2 | | 5. TYPE OF REPORT & PERIOD COVERED |
| | | 6. PERFORMING ORG. REPORT NUMBER |
| 7. AUTHOR(s) Marjorie M. Hoidale Lamar Newman | | 8. CONTRACT OR GRANT NUMBER(s) DA Task 1T665702D127-02 |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS | | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS |
| 11. CONTROLLING OFFICE NAME AND ADDRESS U. S. Army Electronics Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico | | 12. REPORT DATE April 1974 |
| | | 13. NUMBER OF PAGES 115 |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) U. S. Army Electronics Command Ft. Monmouth, New Jersey | | 15. SECURITY CLASS. (of this report) UNCLASSIFIED |
| | | 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE |
| 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. | | |
| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) | | |
| 18. SUPPLEMENTARY NOTES | | |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind Reproduced by NATIONAL TECHNICAL INFORMATION SERVICE U S Department of Commerce Springfield VA 22151 | | |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A statistical analysis of exoteric meteorological data is presented for "A" Station, White Sands Missile Range, New Mexico. The atmospheric parameters analyzed are surface temperature, relative humidity, dew point, pressure, density, precipitation, and observed weather and clouds. This climatological information is based on the period of observation from 1951-1973. | | |

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ATMOSPHERIC STRUCTURE

WHITE SANDS MISSILE RANGE, NEW MEXICO

PART 2

TEMPERATURE, RELATIVE HUMIDITY, DEW POINT, STATION PRESSURE,
DENSITY, CLOUDS, HYDROMETEORS, AND LITHOMETEORS

By

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and

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DA Task 1T665702D127-02

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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FOREWORD

This report is a revision of Data Report 590 published under the same title in January 1971. The revision updates the original data to cover the period from 1951 through 1973.

Supersedes AD-883071L

ACKNOWLEDGEMENTS

It would be impossible to acknowledge all whose work have made this report possible; however, the authors do wish to acknowledge the very important contribution made by the military surface observers who collected and edited the initial records during the years 1951 through 1973. Without their records this report could never have been written.

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INTRODUCTION

Activities of various projects on the Range often necessitate a knowledge of atmospheric conditions at the surface, or aloft, weeks or months in advance of the scheduled mission. As this is well beyond the capability of the normal 24-56 hour forecast, or the longer five-day outlook, a statistical analysis of exoteric meteorological data is often desirable.

This report presents the frequency of occurrence of the critical meteorological condition, mean values, and extreme conditions classified by months and hours that can be expected at "A" Station, White Sands Missile Range (WSMR), New Mexico, latitude 32° 22' 42" north, longitude 106° 28' 47" west, elevation 4,238 feet above mean sea level (MSL). The eight surface parameters so analyzed are temperature, relative humidity, dew point, station pressure, density, precipitation, and observed weather and clouds. The statistical information is based on the observational period 1951-1973. It must be realized, however, that the data presented in this type of statistical analysis are merely an aid and not the final or complete answer to scheduling a mission successfully from the meteorological standpoint. Averages or means do not give information on the random variability of monthly or hourly values or long-term climatic changes.

A statistical analysis of sky cover, surface wind conditions, and visibility appeared in Report 1 of this series [1], while climatological information on upper air data at various test sites on the Range appears in Report 3 in the series [2, 3, 4, 5, 6, 7].

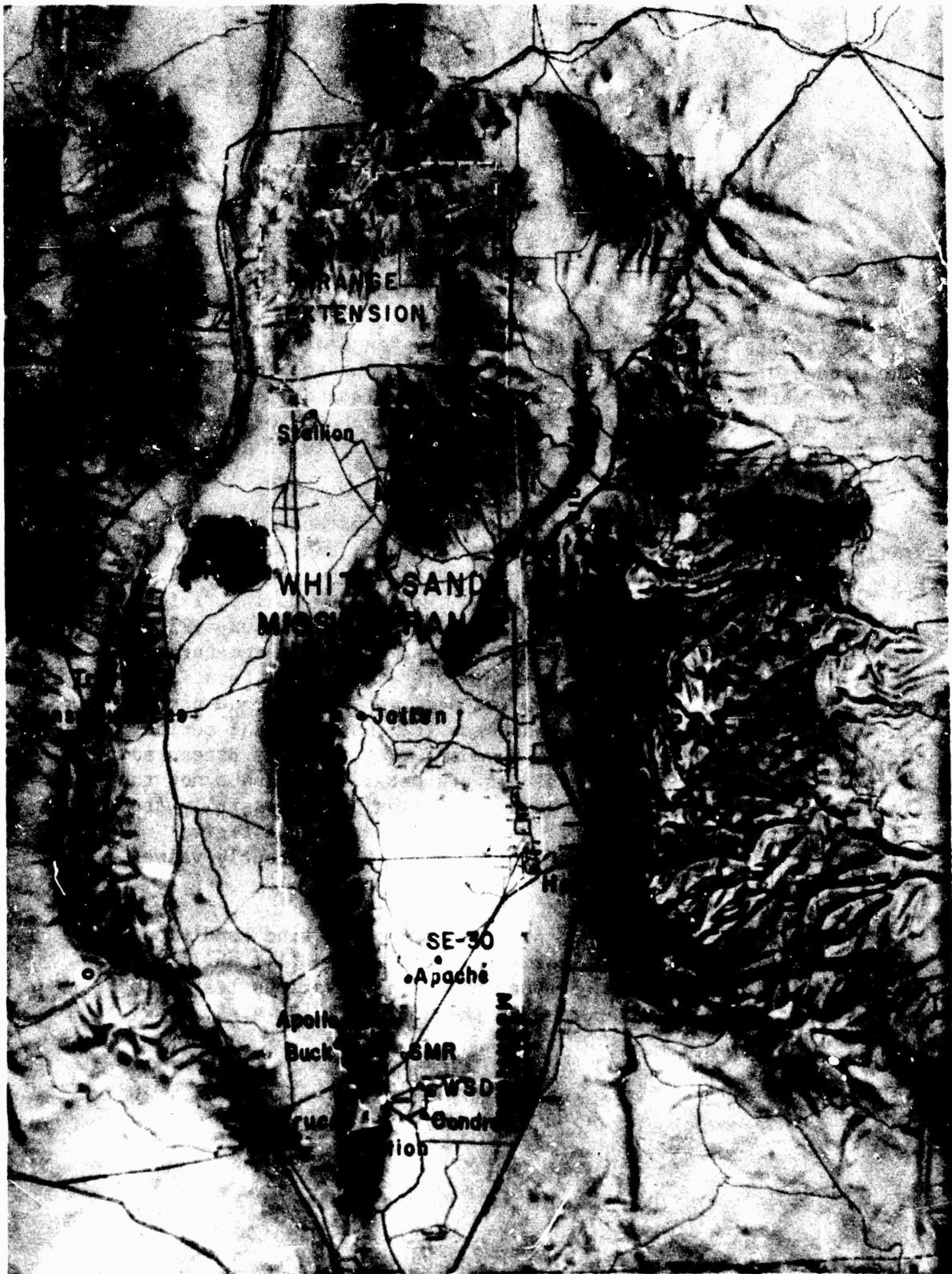


FIGURE 1. MAP OF WHITE SANDS MISSILE RANGE

EXPLANATION OF TERMS

1. DRY-BULB TEMPERATURE. Technically, the ambient temperature registered by the dry-bulb thermometer of a psychrometer. However, it is identical with the temperature of the air and may also be used in that sense. [8]
2. RELATIVE HUMIDITY. The ratio, expressed as a percentage, of the actual vapor pressure in the air to the amount that would be present if the air were saturated at the same pressure and temperature. [8]
3. DEW POINT TEMPERATURE. The temperature to which a given parcel of air must be cooled at constant pressure and constant water-vapor content in order for saturation to occur. [8]
4. STATION PRESSURE. The atmospheric pressure at the assigned station elevation. [8]
5. HYDROMETEORS. A hydrometeor is a meteor consisting of liquid or solid water particles which are either falling through or suspended in the atmosphere, blown from the surface by wind, or deposited on objects. Some examples are fog, rain, drizzle, freezing rain, hail, snow, blowing snow, etc. [8]
6. LITHOMETEORS. A lithometeor is a meteor consisting of a visible concentration of mostly solid, dry particles. The particles are more or less suspended in the air or lifted from the ground by wind. The term includes such dry atmospheric suspensoids as dust, haze, smoke, sand, etc. [8]
7. TEMPERATURE EXTREME. In climatology, the highest and, in some cases, the lowest temperature observed during a given period or during a given month or season of that period. If this is the whole period for which observations are available, it is the absolute extreme. [9]
8. DENSITY. [10]

$$\rho_x = 248.43 \left[\frac{p_x}{K_{vx}} \right] \text{ grams/cubic meter}$$

8. DENSITY. [cont'd]

$$K_{vx} = K_x \left[\frac{P_x}{P_x - 0.378 e_x} \right]$$

$$e_x = 0.0611 f_x 10^{7.5 C_x / C_x + 237.3}$$

$$K_x = C_x + 273.16$$

where,

ρ_x = Density

P_x = Pressure, in millibars

K_{vx} = Virtual temperature in degrees Kelvin

e_x = Partial pressure of aqueous vapor, in millibars

C_x = Temperature, ° Centigrade

K_x = Temperature, Absolute, in ° Kelvin

f_x = Relative humidity, per cent

9. CUMULUS. Dense clouds with vertical development; the upper surface is dome-shaped and exhibits rounded protuberances, while the base is nearly horizontal.

When the cloud is opposite the sun, the surfaces normal to the observer are brighter than the edges of the protuberances. When the light comes from the side, the clouds exhibit strong contrasts of light and shade; against the sun, on the other hand, they look dark with a bright edge. [11]

10. CUMULONIMBUS. Heavy masses of cloud, with great vertical development, whose cumuliform summits resemble mountains or towers, whose upper parts have a fibrous texture, and often spread out in the shape of an anvil.

Virga frequently trails from the base, which resembles nimbostratus. This base has often a layer of very low ragged clouds below it (fractostratus, fractocumulus).

Cumulonimbus clouds are generally associated with showers of rain or snow and sometimes of hail, and often with thunderstorms. [11]

11. MAMMATO-CUMULUS. (Cumulonimbus mammatus). This description is given to all clouds whose lower surfaces resemble pouches. This form is found especially in stratocumulus and in cumulonimbus, either at the base or, more commonly, on the lower surface of anvil projections. It is also found, though rarely, in cirrus clouds, probably when they have originated in the anvil of a dispersing cumulonimbus. [11]
12. CIRRUS. Detached clouds of delicate and fibrous appearance, without shading (except cirrus nothus), generally white in color, often of a silky appearance.

Cirrus appears in such forms as isolated tufts, lines drawn across a blue sky, branching feather-like plumes, curved lines ending in tufts, etc.; they are often arranged in bands which cross the sky like meridian lines, and which, owing to the effect of perspective, converge to a point on the horizon, or two opposite points (cirrostratus and cirrocumulus often take part in the formation of these bands). [11]

13. CIRROSTRATUS. A thin, whitish veil which does not blur the outlines of the sun or moon, but usually gives rise to halos. Sometimes it is quite diffuse and merely gives the sky a milky look; sometimes it more or less distinctly shows a fibrous structure with disordered filaments. [11]
14. CIRROCUMULUS. A cirriform layer or patch composed of small white flakes or of very small globular masses, usually without shadows, which are arranged in groups or lines, or more often in ripples resembling those of the sand on the seashore. [11]
15. STRATUS. A low, uniform layer of cloud, resembling fog, but not resting on the ground. [11]
16. STRATOCUMULUS. A layer (or patches) composed of laminae, globular masses or rolls; the smallest of the regularly arranged elements are fairly large; they are soft and grey, with darker parts.
17. FRACTOSTRATUS. When a layer of stratus is broken up into irregular shreds, it is designated "fractostratus". [11]
18. FRACTOCUMULUS. This cloud resembles ragged cumulus, in which the different parts show constant change. [11]

19. **ALTOCUMULUS.** A layer (or patches) composed of laminae or rather flattened globular masses, the smallest elements of the regularly arranged layer being fairly small and thin, with or without shading. These elements are arranged in groups, in lines, or waves, following one or two directions, and are sometimes so close together that their edges join.

The thin translucent edges of the elements often show irisations which are rather characteristic of this class of cloud. [11]

20. **ALTOSTRATUS.** Straited or fibrous veil, more or less grey or bluish in color. This cloud is like thick cirrostratus but without halo phenomena; the sun or moon shows vaguely, with a faint gleam, as though through ground glass. Sometimes the sheet is thin, with forms intermediate with cirrostratus. Sometimes it is very thick and dark, sometimes even completely hiding the sun or moon. In this case differences of thickness may cause relatively light patches between very dark parts; but the surface never shows real relief, and the straited or fibrous structure is always seen in places in the body of the cloud.

Every form is observed between high altostratus and cirrostratus on the one hand, and low altostratus and nimbostratus on the other.

Rain or snow may fall from altostratus (altostratus precipitans), but when the rain is heavy, the cloud layer will have grown thicker and lower, becoming nimbostratus; but heavy snow may fall from a layer that is definitely altostratus. [11]

21. **NIMBOSTRATUS.** A low amorphous and rainy layer, of a dark grey color, usually nearly uniform; feebly illuminated seemingly from inside. When precipitation occurs, it is in the form of continuous rain or snow. However, nimbostratus may occur without rain or snow.

There is often precipitation which does not reach the ground; in this case the base of the cloud is usually diffuse and looks wet because of the general trailing precipitation, virga, so that it is not possible to determine the limit of its lower surface. [11]

SECTION I

TEMPERATURE, RELATIVE HUMIDITY, AND DEW POINT

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TABLE I
 MEAN NUMBER OF DAYS PER MONTH - DRY BULB TEMPERATURE
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

| MONTH | DRY BULB TEMPERATURE (DEG F) | | | | | | | TOTAL DAYS OBSERVED |
|-------|------------------------------|-----|-----|-----|-----|----|-----|------------------------|
| | <32 | >20 | <32 | >10 | <20 | >0 | <10 | |
| JAN | 11 | 9 | | 1 | | 0 | 0 | 645 |
| FEB | 7 | 6 | | 0 | | 0 | 0 | 588 |
| MAR | 3 | 2 | | 0 | | 0 | 0 | 646 |
| APR | 0 | 0 | | 0 | | 0 | 0 | 625 |
| MAY | 0 | 0 | | 0 | | 0 | 0 | 655 |
| JUN | 0 | 0 | | 0 | | 0 | 0 | 633 |
| JUL | 0 | 0 | | 0 | | 0 | 0 | 650 |
| AUG | 0 | 0 | | 0 | | 0 | 0 | 656 |
| SEP | 0 | 0 | | 0 | | 0 | 0 | 635 |
| OCT | 0 | 0 | | 0 | | 0 | 0 | 661 |
| NOV | 3 | 2 | | 0 | | 0 | 0 | 632 |
| DEC | 11 | 9 | | 0 | | 0 | 0 | 667 |

TABLE I (CONT)

MEAN NUMBER OF DAYS PER MONTH - DRY BULB TEMPERATURE

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

| MONTH | DRY BULB TEMPERATURE (DEG F) | | | | TOTAL |
|-------|------------------------------|-----|-----|---------------|-------|
| | >100 | >95 | >90 | DAYS OBSERVED | |
| JAN | 0 | 0 | 0 | 0 | 645 |
| FEB | 0 | 0 | 0 | 0 | 588 |
| MAR | 0 | 0 | 0 | 0 | 646 |
| APR | 0 | 0 | 0 | 0 | 625 |
| MAY | 0 | 1 | 6 | 6 | 655 |
| JUN | 2 | 10 | 20 | 20 | 633 |
| JUL | 3 | 13 | 23 | 23 | 650 |
| AUG | 1 | 6 | 18 | 18 | 656 |
| SEP | 0 | 1 | 8 | 8 | 635 |
| OCT | 0 | 0 | 0 | 0 | 661 |
| NOV | 0 | 0 | 0 | 0 | 632 |
| DEC | 0 | 0 | 0 | 0 | 667 |

TABLE II

MINIMUM, MAXIMUM, AND MEAN DURATION IN HOURS BY MONTH - DRY BULB TEMPERATURE

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

DRY BULB TEMPERATURE (DEG F)

| MONTH | <32 | | | >20 <32 | | | >10 <20 | | | >0 <10 | | | <0 | | | OBSERVATIONS |
|-------|-----|------|-----|---------|------|-----|---------|------|-----|--------|------|-----|-----|------|-----|--------------|
| | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | |
| JAN | 191 | 87 | 17 | 145 | 64 | 12 | 62 | 9 | 0 | 21 | 1 | 0 | 9 | 0 | 0 | 15679 |
| FEB | 133 | 46 | 0 | 113 | 35 | 0 | 27 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 14372 |
| MAR | 78 | 16 | 0 | 68 | 12 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15758 |
| APR | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15088 |
| MAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15550 |
| JUN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14870 |
| JUL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15543 |
| AUG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15750 |
| SEP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15227 |
| OCT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15977 |
| NOV | 43 | 13 | 0 | 33 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15124 |
| DEC | 182 | 60 | 11 | 145 | 46 | 3 | 12 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 15236 |

TABLE II (CONT)

MINIMUM, MAXIMUM, AND MEAN DURATION IN HOURS BY MONTH - DRY BULB TEMPERATURE

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

DRY BULB TEMPERATURE (DEG F)

| MONTH | >100 | | >95 | | >90 | | OBSERVATIONS |
|-------|------|----------|-----|----------|-----|----------|--------------|
| | MAX | MEAN MIN | MAX | MEAN MIN | MAX | MEAN MIN | |
| JAN | 0 | 0 | 0 | 0 | 0 | 0 | 15679 |
| FEB | 0 | 0 | 0 | 0 | 0 | 0 | 14372 |
| MAR | 0 | 0 | 0 | 0 | 0 | 0 | 15758 |
| APR | 0 | 0 | 0 | 0 | 11 | 1 | 15088 |
| MAY | 11 | 0 | 34 | 3 | 75 | 23 | 15550 |
| JUN | 45 | 8 | 122 | 40 | 227 | 120 | 14870 |
| JUL | 48 | 6 | 166 | 46 | 295 | 132 | 15543 |
| AUG | 9 | 1 | 84 | 18 | 204 | 85 | 15750 |
| SEP | 0 | 0 | 35 | 3 | 115 | 28 | 15227 |
| OCT | 0 | 0 | 0 | 0 | 4 | 0 | 15977 |
| NOV | 0 | 0 | 0 | 0 | 0 | 0 | 15124 |
| DEC | 0 | 0 | 0 | 0 | 0 | 0 | 15236 |

TABLE III

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JANUARY

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 66.0 | 42.5 | -1.0 | 651 | 100 | 47 | 9 | 591 | 0 |
| 1 | 68.0 | 41.8 | -1.0 | 657 | 100 | 48 | 8 | 597 | 1 |
| 2 | 67.0 | 40.8 | -4.0 | 657 | 100 | 50 | 9 | 597 | 2 |
| 3 | 68.0 | 40.0 | -3.0 | 657 | 100 | 51 | 10 | 597 | 3 |
| 4 | 66.0 | 39.2 | -3.0 | 657 | 100 | 52 | 9 | 597 | 4 |
| 5 | 65.0 | 38.5 | -3.0 | 657 | 100 | 54 | 10 | 597 | 5 |
| 6 | 65.0 | 37.7 | -6.0 | 658 | 100 | 55 | 8 | 597 | 6 |
| 7 | 64.0 | 37.1 | -6.0 | 660 | 100 | 55 | 11 | 598 | 7 |
| 8 | 65.0 | 38.9 | -4.0 | 660 | 100 | 53 | 10 | 597 | 8 |
| 9 | 67.0 | 42.2 | 1.0 | 660 | 100 | 48 | 7 | 597 | 9 |
| 10 | 67.0 | 45.0 | 4.0 | 659 | 100 | 44 | 5 | 596 | 10 |
| 11 | 69.0 | 47.7 | 7.0 | 660 | 100 | 40 | 5 | 598 | 11 |
| 12 | 71.0 | 50.3 | 10.0 | 658 | 100 | 37 | 7 | 596 | 12 |
| 13 | 73.0 | 52.4 | 14.0 | 659 | 96 | 34 | 5 | 597 | 13 |
| 14 | 75.0 | 53.8 | 13.0 | 661 | 99 | 33 | 4 | 599 | 14 |
| 15 | 76.0 | 54.5 | 13.0 | 661 | 100 | 32 | 6 | 599 | 15 |
| 16 | 76.0 | 54.1 | 12.0 | 660 | 100 | 32 | 5 | 598 | 16 |
| 17 | 74.0 | 51.7 | 12.0 | 649 | 99 | 35 | 4 | 582 | 17 |
| 18 | 71.0 | 48.6 | 8.0 | 639 | 100 | 39 | 6 | 576 | 18 |
| 19 | 71.0 | 46.8 | 7.0 | 637 | 100 | 41 | 5 | 574 | 19 |
| 20 | 70.0 | 45.8 | 6.0 | 639 | 100 | 42 | 6 | 576 | 20 |
| 21 | 71.0 | 44.9 | 6.0 | 638 | 100 | 43 | 7 | 575 | 21 |
| 22 | 70.0 | 43.9 | 4.0 | 639 | 100 | 44 | 7 | 576 | 22 |
| 23 | 68.0 | 43.3 | 1.0 | 640 | 100 | 45 | 6 | 577 | 23 |
| BY MONTH | 76.0 | 45.1 | -6.0 | 1563 | 100 | 44 | 4 | 14184 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JANUARY

DEW POINT (DEG F)

| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS |
|-------------|------|------|-------|-----------------------|
| 0 | 48.0 | 21.9 | -21.0 | 651 |
| 1 | 49.0 | 21.8 | -21.0 | 657 |
| 2 | 50.0 | 21.6 | -16.0 | 657 |
| 3 | 50.0 | 21.7 | -9.0 | 657 |
| 4 | 49.0 | 21.5 | -17.0 | 657 |
| 5 | 50.0 | 21.5 | -25.0 | 657 |
| 6 | 50.0 | 21.6 | -15.0 | 657 |
| 7 | 49.0 | 21.2 | -21.0 | 661 |
| 8 | 46.0 | 22.1 | -13.0 | 659 |
| 9 | 50.0 | 22.6 | -11.0 | 659 |
| 10 | 49.0 | 22.9 | -13.0 | 658 |
| 11 | 51.0 | 22.8 | -19.0 | 660 |
| 12 | 51.0 | 23.0 | -11.0 | 658 |
| 13 | 49.0 | 22.6 | -14.0 | 659 |
| 14 | 49.0 | 22.3 | -25.0 | 661 |
| 15 | 49.0 | 22.1 | -15.0 | 661 |
| 16 | 49.0 | 21.8 | -18.0 | 660 |
| 17 | 49.0 | 21.8 | -17.0 | 649 |
| 18 | 49.0 | 22.4 | -21.0 | 639 |
| 19 | 48.0 | 22.2 | -14.0 | 637 |
| 20 | 47.0 | 22.1 | -14.0 | 639 |
| 21 | 46.0 | 21.9 | -14.0 | 638 |
| 22 | 46.0 | 21.6 | -23.0 | 638 |
| 23 | 46.0 | 21.4 | -27.0 | 640 |
| BY MONTH | 51.0 | 22.0 | -27.0 | 15669 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY AT CONT, AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF FEBRUARY

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 69.0 | 45.7 | 10.0 | 603 | 100 | 42 | 8 | 545 | 0 |
| 1 | 69.0 | 44.8 | 9.0 | 604 | 100 | 43 | 7 | 546 | 1 |
| 2 | 68.0 | 44.0 | 10.0 | 603 | 100 | 44 | 7 | 545 | 2 |
| 3 | 68.0 | 43.0 | 13.0 | 603 | 100 | 46 | 8 | 545 | 3 |
| 4 | 67.0 | 42.1 | 10.0 | 604 | 100 | 47 | 7 | 546 | 4 |
| 5 | 65.0 | 41.3 | 8.0 | 605 | 100 | 48 | 8 | 566 | 5 |
| 6 | 64.0 | 40.6 | 9.0 | 603 | 100 | 50 | 4 | 545 | 6 |
| 7 | 64.0 | 40.0 | 10.0 | 604 | 100 | 51 | 7 | 546 | 7 |
| 8 | 66.0 | 42.5 | 12.0 | 603 | 100 | 47 | 4 | 545 | 8 |
| 9 | 68.0 | 45.5 | 15.0 | 604 | 100 | 43 | 13 | 546 | 9 |
| 10 | 68.0 | 48.3 | 13.0 | 604 | 100 | 37 | 3 | 516 | 10 |
| 11 | 72.0 | 51.2 | 17.0 | 604 | 100 | 35 | 3 | 564 | 11 |
| 12 | 77.0 | 53.8 | 17.0 | 605 | 99 | 33 | 5 | 547 | 12 |
| 13 | 79.0 | 55.7 | 18.0 | 604 | 96 | 30 | 8 | 546 | 13 |
| 14 | 81.0 | 57.0 | 17.0 | 604 | 99 | 28 | 4 | 547 | 14 |
| 15 | 78.0 | 57.8 | 21.0 | 605 | 97 | 27 | 3 | 547 | 15 |
| 16 | 80.0 | 57.7 | 21.0 | 604 | 96 | 27 | 5 | 547 | 16 |
| 17 | 77.0 | 56.2 | 20.0 | 594 | 98 | 28 | 5 | 551 | 17 |
| 18 | 72.0 | 53.1 | 18.0 | 586 | 96 | 32 | 7 | 528 | 18 |
| 19 | 71.0 | 50.9 | 18.0 | 585 | 99 | 34 | 8 | 527 | 19 |
| 20 | 71.0 | 49.5 | 18.0 | 535 | 98 | 36 | 6 | 528 | 20 |
| 21 | 69.0 | 48.4 | 18.0 | 586 | 96 | 37 | 6 | 528 | 21 |
| 22 | 70.0 | 47.4 | 15.0 | 586 | 97 | 39 | 7 | 528 | 22 |
| 23 | 69.0 | 46.6 | 12.0 | 584 | 98 | 40 | 7 | 545 | 23 |
| BY MONTH | 81.0 | 48.5 | 8.0 | 14372 | 100 | 39 | 3 | 13054 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

WEATHER AND EXTREME DEW POINT BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF FEBRUARY

| DEW POINT (DEG F) | | | | | TOTAL |
|-------------------|------|------|-------|--------------|-------|
| HOUR | HIGH | MEAN | LOW | OBSERVATIONS | |
| 0 | 50.0 | 21.4 | -6.0 | 603 | |
| 1 | 52.0 | 21.5 | -9.0 | 604 | |
| 2 | 53.0 | 21.2 | -7.0 | 603 | |
| 3 | 50.0 | 21.4 | -9.0 | 603 | |
| 4 | 51.0 | 21.5 | -6.0 | 604 | |
| 5 | 51.0 | 21.4 | -9.0 | 605 | |
| 6 | 50.0 | 21.3 | -10.0 | 603 | |
| 7 | 48.0 | 21.3 | -6.0 | 604 | |
| 8 | 50.0 | 21.9 | -16.0 | 603 | |
| 9 | 48.0 | 22.4 | -6.0 | 604 | |
| 10 | 51.0 | 22.5 | -19.0 | 604 | |
| 11 | 50.0 | 22.2 | -16.0 | 604 | |
| 12 | 51.0 | 22.1 | -10.0 | 605 | |
| 13 | 51.0 | 21.4 | -8.0 | 604 | |
| 14 | 47.0 | 20.9 | -13.0 | 604 | |
| 15 | 50.0 | 20.5 | -15.0 | 605 | |
| 16 | 49.0 | 20.1 | -12.0 | 604 | |
| 17 | 49.0 | 19.5 | -14.0 | 594 | |
| 18 | 50.0 | 20.4 | -9.0 | 586 | |
| 19 | 47.0 | 20.6 | -7.0 | 585 | |
| 20 | 48.0 | 20.4 | -12.0 | 585 | |
| 21 | 59.0 | 20.5 | -10.0 | 585 | |
| 22 | 48.0 | 20.7 | -10.0 | 586 | |
| 23 | 48.0 | 20.9 | -6.0 | 583 | |
| BY MONTH | 59.0 | 21.2 | -19.0 | 14370 | |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MARCH

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|--------------------|-----------------------------|------|-----|--------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 75.0 | 52.1 | 23.0 | 664 | 100 | 35 | 7 | 596 | 0 |
| 1 | 75.0 | 51.0 | 23.0 | 665 | 100 | 34 | 6 | 597 | 1 |
| 2 | 74.0 | 49.8 | 23.0 | 664 | 97 | 38 | 7 | 596 | 2 |
| 3 | 74.0 | 48.9 | 23.0 | 665 | 94 | 39 | 6 | 597 | 3 |
| 4 | 72.0 | 47.8 | 18.0 | 665 | 97 | 41 | 7 | 597 | 4 |
| 5 | 71.0 | 46.9 | 18.0 | 665 | 98 | 42 | 8 | 597 | 5 |
| 6 | 71.0 | 45.9 | 17.0 | 663 | 99 | 43 | 8 | 595 | 6 |
| 7 | 73.0 | 46.5 | 19.0 | 664 | 97 | 43 | 8 | 596 | 7 |
| 8 | 75.0 | 49.6 | 23.0 | 663 | 99 | 39 | 10 | 595 | 8 |
| 9 | 75.0 | 52.3 | 24.0 | 663 | 98 | 36 | 7 | 595 | 9 |
| 10 | 77.0 | 55.3 | 27.0 | 663 | 99 | 32 | 8 | 595 | 10 |
| 11 | 82.0 | 58.1 | 28.0 | 662 | 98 | 29 | 6 | 594 | 11 |
| 12 | 82.0 | 60.2 | 27.0 | 665 | 96 | 27 | 6 | 597 | 12 |
| 13 | 83.0 | 62.1 | 29.0 | 662 | 97 | 25 | 3 | 594 | 13 |
| 14 | 85.0 | 63.5 | 30.0 | 663 | 95 | 24 | 4 | 595 | 14 |
| 15 | 85.0 | 64.2 | 31.0 | 663 | 98 | 23 | 5 | 595 | 15 |
| 16 | 84.0 | 64.1 | 31.0 | 664 | 90 | 23 | 5 | 596 | 16 |
| 17 | 84.0 | 63.3 | 31.0 | 647 | 87 | 23 | 4 | 575 | 17 |
| 18 | 82.0 | 61.2 | 30.0 | 638 | 100 | 24 | 5 | 598 | 18 |
| 19 | 79.0 | 59.7 | 28.0 | 637 | 92 | 27 | 3 | 569 | 19 |
| 20 | 78.0 | 57.0 | 27.0 | 639 | 100 | 29 | 5 | 571 | 20 |
| 21 | 77.0 | 55.6 | 25.0 | 640 | 100 | 31 | 5 | 572 | 21 |
| 22 | 77.0 | 54.4 | 23.0 | 638 | 100 | 32 | 7 | 570 | 22 |
| 23 | 78.0 | 53.3 | 23.0 | 638 | 96 | 33 | 7 | 570 | 23 |
| BY MONTH | 86.0 | 55.0 | 16.0 | 15758 | 100 | 32 | 3 | 14122 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MARCH

DEW POINT (DEG F)

| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS |
|-------------|------|------|-------|-----------------------|
| 0 | 48.0 | 21.3 | -8.0 | 664 |
| 1 | 47.0 | 21.5 | -6.0 | 665 |
| 2 | 47.0 | 21.6 | -9.0 | 664 |
| 3 | 59.0 | 21.7 | -9.0 | 665 |
| 4 | 47.0 | 21.7 | -5.0 | 665 |
| 5 | 47.0 | 21.8 | -9.0 | 665 |
| 6 | 47.0 | 21.7 | -7.0 | 663 |
| 7 | 47.0 | 22.5 | -7.0 | 664 |
| 8 | 47.0 | 22.7 | -3.0 | 663 |
| 9 | 51.0 | 22.7 | -5.0 | 663 |
| 10 | 55.0 | 22.9 | .0 | 663 |
| 11 | 56.0 | 22.4 | -4.0 | 662 |
| 12 | 53.0 | 22.3 | -6.0 | 665 |
| 13 | 54.0 | 22.0 | -10.0 | 662 |
| 14 | 56.0 | 21.3 | -11.0 | 663 |
| 15 | 55.0 | 20.8 | -9.0 | 663 |
| 16 | 49.0 | 20.2 | -10.0 | 664 |
| 17 | 48.0 | 19.3 | -9.0 | 647 |
| 18 | 47.0 | 19.7 | -16.0 | 636 |
| 19 | 48.0 | 20.5 | -15.0 | 637 |
| 20 | 47.0 | 20.7 | -14.0 | 639 |
| 21 | 49.0 | 21.0 | -10.0 | 640 |
| 22 | 48.0 | 21.1 | -9.0 | 638 |
| 23 | 48.0 | 21.2 | -5.0 | 638 |
| BY MONTH | 59.0 | 21.5 | -16.0 | 15758 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF APRIL

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 83.0 | 61.0 | 37.0 | 640 | 94 | 27 | 4 | 597 | 0 |
| 1 | 83.0 | 59.7 | 35.0 | 641 | 94 | 28 | 4 | 598 | 1 |
| 2 | 80.0 | 58.6 | 36.0 | 641 | 98 | 29 | 4 | 598 | 2 |
| 3 | 77.0 | 57.4 | 35.0 | 640 | 99 | 31 | 3 | 597 | 3 |
| 4 | 77.0 | 56.2 | 32.0 | 641 | 89 | 32 | 4 | 598 | 4 |
| 5 | 77.0 | 55.2 | 32.0 | 640 | 93 | 34 | 4 | 597 | 5 |
| 6 | 76.0 | 54.6 | 31.0 | 642 | 85 | 34 | 5 | 599 | 6 |
| 7 | 77.0 | 56.9 | 34.0 | 641 | 87 | 32 | 5 | 598 | 7 |
| 8 | 82.0 | 59.8 | 36.0 | 642 | 83 | 29 | 4 | 599 | 8 |
| 9 | 82.0 | 62.6 | 35.0 | 641 | 95 | 27 | 3 | 598 | 9 |
| 10 | 83.0 | 65.5 | 41.0 | 641 | 93 | 24 | 3 | 598 | 10 |
| 11 | 86.0 | 68.0 | 42.0 | 640 | 87 | 22 | 4 | 597 | 11 |
| 12 | 89.0 | 70.1 | 44.0 | 640 | 83 | 20 | 2 | 596 | 12 |
| 13 | 92.0 | 71.9 | 45.0 | 642 | 91 | 18 | 2 | 599 | 13 |
| 14 | 91.0 | 73.0 | 47.0 | 641 | 81 | 17 | 2 | 598 | 14 |
| 15 | 94.0 | 73.7 | 47.0 | 640 | 75 | 16 | 2 | 597 | 15 |
| 16 | 93.0 | 73.7 | 46.0 | 641 | 76 | 16 | 2 | 598 | 16 |
| 17 | 92.0 | 73.1 | 45.0 | 607 | 75 | 16 | 2 | 561 | 17 |
| 18 | 90.0 | 71.4 | 45.0 | 599 | 78 | 17 | 2 | 557 | 18 |
| 19 | 88.0 | 68.8 | 43.0 | 597 | 76 | 19 | 1 | 555 | 19 |
| 20 | 85.0 | 66.7 | 38.0 | 599 | 76 | 21 | 3 | 557 | 20 |
| 21 | 86.0 | 65.2 | 37.0 | 598 | 85 | 22 | 3 | 556 | 21 |
| 22 | 84.0 | 63.7 | 38.0 | 596 | 85 | 24 | 4 | 554 | 22 |
| 23 | 83.0 | 62.5 | 38.0 | 598 | 85 | 25 | 4 | 556 | 23 |
| BY MONTH | 94.0 | 64.5 | 29.0 | 15088 | 99 | 24 | 1 | 14058 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF APRIL

DEW POINT (DEG F)

| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS |
|-------------|------|------|-------|-----------------------|
| 0 | 49.0 | 22.8 | -17.0 | 640 |
| 1 | 51.0 | 23.0 | -10.0 | 641 |
| 2 | 50.0 | 23.1 | -13.0 | 641 |
| 3 | 50.0 | 23.3 | -20.0 | 640 |
| 4 | 49.0 | 23.6 | -13.0 | 641 |
| 5 | 51.0 | 23.8 | -20.0 | 640 |
| 6 | 50.0 | 24.1 | -9.0 | 642 |
| 7 | 51.0 | 24.8 | -9.0 | 641 |
| 8 | 51.0 | 25.0 | -10.0 | 642 |
| 9 | 52.0 | 24.9 | -14.0 | 641 |
| 10 | 52.0 | 24.6 | -15.0 | 641 |
| 11 | 54.0 | 24.2 | -8.0 | 640 |
| 12 | 50.0 | 23.6 | -18.0 | 639 |
| 13 | 51.0 | 22.8 | -30.0 | 642 |
| 14 | 52.0 | 22.3 | -20.0 | 641 |
| 15 | 70.0 | 21.8 | -23.0 | 640 |
| 16 | 50.0 | 20.8 | -26.0 | 641 |
| 17 | 52.0 | 19.9 | -22.0 | 607 |
| 18 | 50.0 | 19.8 | -16.0 | 599 |
| 19 | 51.0 | 20.3 | -20.0 | 597 |
| 20 | 48.0 | 21.0 | -16.0 | 599 |
| 21 | 50.0 | 21.5 | -16.0 | 598 |
| 22 | 51.0 | 21.8 | -20.0 | 596 |
| 23 | 51.0 | 22.1 | -15.0 | 598 |
| BY MONTH | 70.0 | 22.7 | -30.0 | 15087 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MAY

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | |
|-------------------------------|-------|------|------|-----------------------------|------|------|-------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW |
| 0 | 88.0 | 68.7 | 42.0 | 652 | 84 | 27 | 4 |
| 1 | 87.0 | 67.2 | 42.0 | 652 | 85 | 28 | 1 |
| 2 | 88.0 | 65.9 | 41.0 | 654 | 83 | 30 | 1 |
| 3 | 84.0 | 64.6 | 42.0 | 654 | 88 | 31 | 5 |
| 4 | 82.0 | 63.4 | 39.0 | 667 | 88 | 33 | 4 |
| 5 | 80.0 | 62.4 | 40.0 | 667 | 91 | 34 | 5 |
| 6 | 84.0 | 63.3 | 41.0 | 664 | 91 | 34 | 6 |
| 7 | 90.0 | 66.1 | 43.0 | 664 | 96 | 32 | 6 |
| 8 | 91.0 | 68.9 | 48.0 | 665 | 82 | 29 | 4 |
| 9 | 92.0 | 71.9 | 49.0 | 663 | 80 | 26 | 4 |
| 10 | 96.0 | 74.7 | 49.0 | 665 | 91 | 23 | 4 |
| 11 | 97.0 | 77.1 | 48.0 | 664 | 84 | 21 | 5 |
| 12 | 99.0 | 79.1 | 51.0 | 665 | 91 | 19 | 3 |
| 13 | 101.0 | 80.8 | 52.0 | 664 | 87 | 17 | 3 |
| 14 | 102.0 | 81.9 | 51.0 | 665 | 77 | 16 | 2 |
| 15 | 101.0 | 82.3 | 49.0 | 664 | 84 | 15 | 3 |
| 16 | 103.0 | 82.1 | 49.0 | 665 | 91 | 15 | 2 |
| 17 | 101.0 | 81.5 | 51.0 | 631 | 91 | 15 | 2 |
| 18 | 99.0 | 80.0 | 51.0 | 622 | 81 | 16 | 2 |
| 19 | 95.0 | 77.4 | 49.0 | 622 | 75 | 18 | 2 |
| 20 | 94.0 | 74.9 | 48.0 | 608 | 85 | 20 | 2 |
| 21 | 93.0 | 73.2 | 46.0 | 606 | 89 | 22 | 3 |
| 22 | 92.0 | 71.7 | 44.0 | 607 | 81 | 23 | 3 |
| 23 | 88.0 | 70.4 | 45.0 | 606 | 83 | 25 | 4 |
| BY MONTH | 103.0 | 72.9 | 38.0 | 15556 | 96 | 24 | 1 |
| | | | | | | | 14536 |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF MAY

| DEW POINT (DEG F) | | | | | TOTAL |
|-------------------|------|------|-------|--------------|-------|
| HOUR | HIGH | MEAN | LOW | OBSERVATIONS | |
| 0 | 59.0 | 28.2 | -15.0 | 652 | |
| 1 | 60.0 | 28.7 | -10.0 | 652 | |
| 2 | 57.0 | 29.1 | -10.0 | 654 | |
| 3 | 70.0 | 29.5 | -10.0 | 654 | |
| 4 | 59.0 | 29.8 | -9.0 | 667 | |
| 5 | 58.0 | 30.3 | -10.0 | 667 | |
| 6 | 58.0 | 31.2 | -2.0 | 664 | |
| 7 | 61.0 | 31.9 | -17.0 | 664 | |
| 8 | 68.0 | 32.1 | -21.0 | 665 | |
| 9 | 63.0 | 31.9 | -24.0 | 663 | |
| 10 | 64.0 | 31.3 | -17.0 | 665 | |
| 11 | 63.0 | 30.5 | -5.0 | 664 | |
| 12 | 63.0 | 29.6 | -11.0 | 665 | |
| 13 | 62.0 | 28.7 | -10.0 | 664 | |
| 14 | 63.0 | 27.7 | -11.0 | 665 | |
| 15 | 62.0 | 26.9 | -12.0 | 664 | |
| 16 | 61.0 | 26.6 | -18.0 | 665 | |
| 17 | 62.0 | 25.4 | -19.0 | 631 | |
| 18 | 58.0 | 25.2 | -21.0 | 622 | |
| 19 | 59.0 | 25.2 | -17.0 | 622 | |
| 20 | 58.0 | 26.0 | -27.0 | 608 | |
| 21 | 58.0 | 26.6 | -17.0 | 606 | |
| 22 | 58.0 | 27.2 | -16.0 | 607 | |
| 23 | 57.0 | 27.8 | -15.0 | 606 | |
| BY MONTH | 70.0 | 28.7 | -27.0 | 15556 | |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JUNE

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|-------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|--------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOURLY |
| 0 | 91.0 | 77.2 | 57.0 | 590 | 92 | 29 | 3 | 546 | 0 |
| 1 | 92.0 | 75.7 | 57.0 | 611 | 95 | 31 | 3 | 567 | 1 |
| 2 | 90.0 | 74.4 | 56.0 | 609 | 99 | 33 | 3 | 565 | 2 |
| 3 | 89.0 | 72.9 | 54.0 | 611 | 98 | 35 | 4 | 567 | 3 |
| 4 | 90.0 | 71.6 | 53.0 | 643 | 99 | 37 | 3 | 599 | 4 |
| 5 | 90.0 | 70.6 | 51.0 | 642 | 100 | 39 | 3 | 598 | 5 |
| 6 | 94.0 | 72.0 | 52.0 | 640 | 100 | 39 | 4 | 596 | 6 |
| 7 | 94.0 | 74.9 | 55.0 | 641 | 100 | 36 | 6 | 597 | 7 |
| 8 | 93.0 | 77.5 | 56.0 | 640 | 100 | 33 | 5 | 596 | 8 |
| 9 | 97.0 | 80.4 | 57.0 | 641 | 98 | 30 | 3 | 597 | 9 |
| 10 | 100.0 | 83.1 | 58.0 | 640 | 95 | 26 | 4 | 596 | 10 |
| 11 | 102.0 | 85.5 | 60.0 | 642 | 98 | 24 | 3 | 598 | 11 |
| 12 | 104.0 | 87.6 | 61.0 | 642 | 99 | 22 | 3 | 598 | 12 |
| 13 | 105.0 | 89.3 | 61.0 | 640 | 90 | 20 | 3 | 596 | 13 |
| 14 | 106.0 | 90.4 | 64.0 | 639 | 85 | 18 | 1 | 595 | 14 |
| 15 | 105.0 | 90.7 | 61.0 | 638 | 95 | 18 | 3 | 594 | 15 |
| 16 | 106.0 | 90.6 | 61.0 | 641 | 90 | 18 | 1 | 597 | 16 |
| 17 | 104.0 | 89.9 | 60.0 | 629 | 93 | 18 | 2 | 581 | 17 |
| 18 | 103.0 | 88.1 | 62.0 | 602 | 98 | 19 | 2 | 557 | 18 |
| 19 | 100.0 | 85.8 | 62.0 | 601 | 93 | 21 | 2 | 556 | 19 |
| 20 | 98.0 | 83.3 | 62.0 | 572 | 91 | 23 | 2 | 527 | 20 |
| 21 | 96.0 | 81.3 | 60.0 | 572 | 87 | 25 | 3 | 527 | 21 |
| 22 | 94.0 | 79.9 | 60.0 | 571 | 91 | 26 | 3 | 526 | 22 |
| 23 | 94.0 | 78.6 | 59.0 | 573 | 94 | 28 | 3 | 528 | 23 |
| BY MONTH | 106.0 | 81.3 | 50.0 | 14870 | 100 | 27 | 1 | 13804 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF JUNE

| DEW POINT (DEG F) | | | | TOTAL |
|-------------------|------|------|-------|--------------|
| HOUR | HIGH | MEAN | LQN | OBSERVATIONS |
| 0 | 66.0 | 38.2 | -6.0 | 590 |
| 1 | 65.0 | 38.8 | -13.0 | 611 |
| 2 | 65.0 | 39.2 | -9.0 | 609 |
| 3 | 65.0 | 39.6 | -7.0 | 611 |
| 4 | 65.0 | 40.0 | -9.0 | 643 |
| 5 | 65.0 | 40.3 | -10.0 | 642 |
| 6 | 63.0 | 41.8 | 2.0 | 640 |
| 7 | 65.0 | 42.3 | 4.0 | 641 |
| 8 | 67.0 | 42.5 | 3.0 | 640 |
| 9 | 69.0 | 42.4 | -9.0 | 641 |
| 10 | 74.0 | 41.7 | -2.0 | 640 |
| 11 | 75.0 | 40.8 | -3.0 | 642 |
| 12 | 68.0 | 40.1 | -1.0 | 642 |
| 13 | 66.0 | 38.9 | -1.0 | 640 |
| 14 | 65.0 | 38.0 | -16.0 | 639 |
| 15 | 67.0 | 37.3 | -6.0 | 637 |
| 16 | 67.0 | 36.7 | -15.0 | 640 |
| 17 | 66.0 | 36.2 | -13.0 | 629 |
| 18 | 65.0 | 36.0 | -13.0 | 602 |
| 19 | 65.0 | 36.2 | -9.0 | 601 |
| 20 | 65.0 | 36.6 | -9.0 | 572 |
| 21 | 66.0 | 37.1 | -9.0 | 572 |
| 22 | 65.0 | 37.5 | -9.0 | 571 |
| 23 | 66.0 | 37.9 | -10.0 | 573 |
| BY MONTH | 75.0 | 39.1 | -16.0 | 14868 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JULY

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | | | |
|-------------------------------|-------|------|------|-----------------------------|------|------|-----|--------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL | HIGH | MEAN | LOW | TOTAL | HOUR |
| | | | | OBSERVATIONS | | | | OBSERVATIONS | |
| 0 | 96.0 | 77.0 | 61.0 | 637 | 99 | 46 | 12 | 573 | 0 |
| 1 | 92.0 | 76.8 | 61.0 | 654 | 99 | 48 | 13 | 588 | 1 |
| 2 | 90.0 | 75.5 | 60.0 | 654 | 99 | 51 | 13 | 588 | 2 |
| 3 | 89.0 | 74.1 | 59.0 | 654 | 99 | 53 | 11 | 588 | 3 |
| 4 | 89.0 | 73.1 | 59.0 | 665 | 99 | 56 | 12 | 599 | 4 |
| 5 | 87.0 | 72.0 | 59.0 | 664 | 99 | 58 | 11 | 599 | 5 |
| 6 | 87.0 | 72.8 | 60.0 | 662 | 100 | 57 | 16 | 597 | 6 |
| 7 | 90.0 | 75.6 | 62.0 | 663 | 100 | 53 | 15 | 597 | 7 |
| 8 | 92.0 | 78.2 | 62.0 | 662 | 99 | 48 | 13 | 597 | 8 |
| 9 | 95.0 | 81.1 | 61.0 | 663 | 97 | 44 | 11 | 599 | 9 |
| 10 | 97.0 | 83.6 | 62.0 | 663 | 97 | 39 | 10 | 599 | 10 |
| 11 | 101.0 | 86.2 | 62.0 | 662 | 97 | 36 | 9 | 597 | 11 |
| 12 | 104.0 | 88.3 | 63.0 | 665 | 96 | 32 | 8 | 600 | 12 |
| 13 | 104.0 | 89.9 | 64.0 | 664 | 94 | 30 | 8 | 599 | 13 |
| 14 | 104.0 | 90.7 | 64.0 | 662 | 98 | 29 | 9 | 597 | 14 |
| 15 | 105.0 | 91.2 | 65.0 | 662 | 100 | 28 | 8 | 597 | 15 |
| 16 | 105.0 | 90.5 | 65.0 | 662 | 94 | 29 | 4 | 598 | 16 |
| 17 | 106.0 | 89.7 | 64.0 | 648 | 92 | 30 | 8 | 579 | 17 |
| 18 | 103.0 | 88.2 | 65.0 | 621 | 92 | 31 | 9 | 558 | 18 |
| 19 | 99.0 | 85.7 | 64.0 | 619 | 93 | 35 | 10 | 556 | 19 |
| 20 | 97.0 | 83.4 | 65.0 | 609 | 99 | 38 | 10 | 547 | 20 |
| 21 | 96.0 | 81.9 | 62.0 | 609 | 99 | 40 | 10 | 546 | 21 |
| 22 | 96.0 | 80.5 | 62.0 | 610 | 97 | 42 | 11 | 547 | 22 |
| 23 | 95.0 | 79.2 | 61.0 | 609 | 98 | 45 | 12 | 546 | 23 |
| BY MONTH | 107.0 | 81.9 | 59.0 | 15543 | 100 | 42 | 2 | 13991 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

| MONTH OF JULY | | | | | DEW POINT (DEG F) | |
|---------------|------|------|------|-----------------------|-------------------|--|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | | |
| 0 | 68.0 | 52.9 | 25.0 | 636 | | |
| 1 | 68.0 | 53.9 | 25.0 | 652 | | |
| 2 | 66.0 | 54.3 | 26.0 | 651 | | |
| 3 | 67.0 | 54.5 | 25.0 | 652 | | |
| 4 | 68.0 | 54.9 | 24.0 | 663 | | |
| 5 | 67.0 | 55.1 | 26.0 | 662 | | |
| 6 | 69.0 | 55.7 | 28.0 | 661 | | |
| 7 | 70.0 | 55.9 | 27.0 | 661 | | |
| 8 | 69.0 | 55.7 | 29.0 | 661 | | |
| 9 | 73.0 | 55.4 | 23.0 | 663 | | |
| 10 | 74.0 | 54.6 | 22.0 | 663 | | |
| 11 | 77.0 | 54.0 | 24.0 | 661 | | |
| 12 | 75.0 | 53.0 | 23.0 | 664 | | |
| 13 | 76.0 | 52.2 | 26.0 | 664 | | |
| 14 | 77.0 | 51.6 | 26.0 | 662 | | |
| 15 | 76.0 | 50.8 | 23.0 | 662 | | |
| 16 | 74.0 | 50.5 | 26.0 | 662 | | |
| 17 | 72.0 | 50.7 | 27.0 | 648 | | |
| 18 | 72.0 | 50.9 | 24.0 | 621 | | |
| 19 | 73.0 | 51.7 | 27.0 | 619 | | |
| 20 | 78.0 | 52.2 | 25.0 | 609 | | |
| 21 | 73.0 | 52.6 | 24.0 | 609 | | |
| 22 | 71.0 | 53.1 | 24.0 | 610 | | |
| 23 | 67.0 | 53.6 | 25.0 | 609 | | |
| BY MONTH | 78.0 | 53.4 | 22.0 | 15525 | | |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF AUGUST

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | | | |
|-------------------------------|-------|------|------|-----------------------------|------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 90.0 | 76.0 | 61.0 | 656 | 99 | 49 | 15 | 592 | 0 |
| 1 | 87.0 | 74.7 | 62.0 | 666 | 99 | 52 | 16 | 601 | 1 |
| 2 | 86.0 | 73.5 | 60.0 | 666 | 98 | 54 | 16 | 601 | 2 |
| 3 | 84.0 | 72.4 | 59.0 | 665 | 100 | 56 | 5 | 600 | 3 |
| 4 | 85.0 | 71.2 | 56.0 | 666 | 99 | 59 | 15 | 601 | 4 |
| 5 | 82.0 | 70.4 | 57.0 | 664 | 99 | 60 | 15 | 599 | 5 |
| 6 | 82.0 | 70.3 | 58.0 | 662 | 100 | 61 | 20 | 597 | 6 |
| 7 | 86.0 | 73.0 | 61.0 | 665 | 100 | 57 | 1 | 600 | 7 |
| 8 | 87.0 | 76.0 | 61.0 | 665 | 100 | 51 | 17 | 600 | 8 |
| 9 | 93.0 | 79.0 | 61.0 | 665 | 97 | 46 | 17 | 600 | 9 |
| 10 | 97.0 | 81.7 | 63.0 | 664 | 97 | 42 | 14 | 599 | 10 |
| 11 | 97.0 | 84.1 | 63.0 | 666 | 98 | 38 | 12 | 601 | 11 |
| 12 | 98.0 | 86.2 | 64.0 | 665 | 97 | 35 | 12 | 600 | 12 |
| 13 | 100.0 | 87.6 | 66.0 | 666 | 93 | 32 | 11 | 601 | 13 |
| 14 | 100.0 | 88.5 | 63.0 | 664 | 95 | 31 | 9 | 599 | 14 |
| 15 | 102.0 | 88.6 | 65.0 | 665 | 92 | 31 | 9 | 600 | 15 |
| 16 | 101.0 | 88.3 | 68.0 | 665 | 88 | 31 | 9 | 600 | 16 |
| 17 | 100.0 | 87.3 | 64.0 | 648 | 96 | 32 | 10 | 578 | 17 |
| 18 | 98.0 | 85.4 | 65.0 | 635 | 87 | 34 | 10 | 570 | 18 |
| 19 | 94.0 | 82.8 | 61.0 | 635 | 91 | 38 | 12 | 570 | 19 |
| 20 | 94.0 | 80.7 | 59.0 | 634 | 100 | 41 | 14 | 569 | 20 |
| 21 | 92.0 | 79.5 | 62.0 | 635 | 90 | 43 | 11 | 570 | 21 |
| 22 | 91.0 | 78.4 | 60.0 | 635 | 95 | 45 | 12 | 570 | 22 |
| 23 | 90.0 | 77.3 | 59.0 | 633 | 100 | 47 | 10 | 568 | 23 |
| BY MONTH | 103.0 | 79.7 | 55.0 | 15750 | 100 | 44 | 1 | 14186 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF AUGUST

| DEW POINT (DEG F) | | | | | TOTAL |
|-------------------|------|------|------|--------------|-------|
| HOUR | HIGH | MEAN | LOW | OBSERVATIONS | |
| 0 | 77.0 | 54.1 | 29.0 | 656 | |
| 1 | 76.0 | 54.3 | 29.0 | 666 | |
| 2 | 77.0 | 54.4 | 28.0 | 664 | |
| 3 | 71.0 | 54.6 | 26.0 | 665 | |
| 4 | 67.0 | 54.8 | 27.0 | 666 | |
| 5 | 66.0 | 54.9 | 27.0 | 664 | |
| 6 | 66.0 | 55.1 | 30.0 | 662 | |
| 7 | 65.0 | 55.7 | 31.0 | 665 | |
| 8 | 66.0 | 55.4 | 30.0 | 665 | |
| 9 | 70.0 | 55.2 | 31.0 | 665 | |
| 10 | 68.0 | 54.8 | 33.0 | 664 | |
| 11 | 69.0 | 54.3 | 30.0 | 666 | |
| 12 | 67.0 | 53.6 | 35.0 | 665 | |
| 13 | 70.0 | 52.8 | 30.0 | 666 | |
| 14 | 67.0 | 52.1 | 27.0 | 664 | |
| 15 | 71.0 | 51.5 | 27.0 | 665 | |
| 16 | 80.0 | 51.4 | 27.0 | 665 | |
| 17 | 66.0 | 51.1 | 27.0 | 648 | |
| 18 | 65.0 | 51.5 | 27.0 | 635 | |
| 19 | 66.0 | 52.2 | 30.0 | 635 | |
| 20 | 65.0 | 52.9 | 31.0 | 634 | |
| 21 | 67.0 | 53.1 | 28.0 | 635 | |
| 22 | 69.0 | 53.5 | 28.0 | 635 | |
| 23 | 69.0 | 53.7 | 24.0 | 633 | |
| BY MONTH | 80.0 | 53.6 | 24.0 | 15750 | |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | | | |
|-------------------------------|------|------|------|-----------------------------|------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 85.0 | 71.1 | 47.0 | 542 | 99 | 46 | 10 | 579 | 0 |
| 1 | 85.0 | 69.7 | 48.0 | 640 | 99 | 49 | 13 | 577 | 1 |
| 2 | 86.0 | 68.7 | 47.0 | 638 | 99 | 51 | 14 | 575 | 2 |
| 3 | 82.0 | 67.4 | 47.0 | 640 | 97 | 53 | 12 | 577 | 3 |
| 4 | 81.0 | 66.3 | 47.0 | 641 | 99 | 55 | 15 | 578 | 4 |
| 5 | 81.0 | 65.3 | 48.0 | 641 | 98 | 57 | 8 | 578 | 5 |
| 6 | 82.0 | 64.5 | 47.0 | 639 | 98 | 59 | 17 | 576 | 6 |
| 7 | 83.0 | 67.0 | 47.0 | 637 | 98 | 55 | 15 | 574 | 7 |
| 8 | 85.0 | 70.4 | 47.0 | 637 | 97 | 50 | 11 | 574 | 8 |
| 9 | 90.0 | 73.7 | 48.0 | 637 | 99 | 45 | 12 | 574 | 9 |
| 10 | 90.0 | 76.8 | 50.0 | 638 | 97 | 40 | 10 | 575 | 10 |
| 11 | 93.0 | 79.4 | 50.0 | 638 | 96 | 36 | 11 | 575 | 11 |
| 12 | 96.0 | 81.4 | 50.0 | 640 | 92 | 33 | 6 | 577 | 12 |
| 13 | 96.0 | 83.0 | 51.0 | 641 | 95 | 31 | 7 | 578 | 13 |
| 14 | 97.0 | 84.0 | 51.0 | 640 | 94 | 29 | 7 | 576 | 14 |
| 15 | 98.0 | 84.4 | 53.0 | 638 | 92 | 28 | 8 | 575 | 15 |
| 16 | 98.0 | 83.9 | 53.0 | 640 | 90 | 29 | 9 | 577 | 16 |
| 17 | 96.0 | 82.6 | 52.0 | 630 | 90 | 30 | 9 | 563 | 17 |
| 18 | 94.0 | 79.9 | 49.0 | 621 | 90 | 33 | 9 | 558 | 18 |
| 19 | 89.0 | 77.2 | 49.0 | 623 | 93 | 37 | 7 | 560 | 19 |
| 20 | 88.0 | 75.3 | 49.0 | 621 | 94 | 40 | 11 | 558 | 20 |
| 21 | 88.0 | 74.2 | 50.0 | 620 | 100 | 41 | 11 | 557 | 21 |
| 22 | 86.0 | 73.0 | 49.0 | 622 | 100 | 43 | 10 | 559 | 22 |
| 23 | 88.0 | 72.0 | 49.0 | 623 | 99 | 45 | 12 | 560 | 23 |
| BY MONTH | 98.0 | 74.6 | 46.0 | 15227 | 100 | 42 | 6 | 13710 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 85.0 | 71.1 | 47.0 | 542 | 99 | 46 | 10 | 579 | 0 |
| 1 | 85.0 | 69.7 | 48.0 | 640 | 99 | 49 | 13 | 577 | 1 |
| 2 | 86.0 | 68.7 | 47.0 | 638 | 99 | 51 | 14 | 575 | 2 |
| 3 | 82.0 | 67.4 | 47.0 | 640 | 97 | 53 | 12 | 577 | 3 |
| 4 | 81.0 | 66.3 | 47.0 | 641 | 99 | 55 | 15 | 578 | 4 |
| 5 | 81.0 | 65.3 | 48.0 | 641 | 98 | 57 | 8 | 578 | 5 |
| 6 | 82.0 | 64.5 | 47.0 | 639 | 98 | 59 | 17 | 576 | 6 |
| 7 | 83.0 | 67.0 | 47.0 | 637 | 98 | 55 | 15 | 574 | 7 |
| 8 | 85.0 | 70.4 | 47.0 | 637 | 97 | 50 | 11 | 574 | 8 |
| 9 | 90.0 | 73.7 | 48.0 | 637 | 99 | 45 | 12 | 574 | 9 |
| 10 | 90.0 | 76.8 | 50.0 | 638 | 97 | 40 | 10 | 575 | 10 |
| 11 | 93.0 | 79.4 | 50.0 | 638 | 96 | 36 | 11 | 575 | 11 |
| 12 | 96.0 | 81.4 | 50.0 | 640 | 92 | 33 | 6 | 577 | 12 |
| 13 | 96.0 | 83.0 | 51.0 | 641 | 95 | 31 | 7 | 578 | 13 |
| 14 | 97.0 | 84.0 | 51.0 | 640 | 94 | 29 | 7 | 576 | 14 |
| 15 | 98.0 | 84.4 | 53.0 | 638 | 92 | 28 | 8 | 575 | 15 |
| 16 | 98.0 | 83.9 | 53.0 | 640 | 90 | 29 | 9 | 577 | 16 |
| 17 | 96.0 | 82.6 | 52.0 | 630 | 90 | 30 | 9 | 563 | 17 |
| 18 | 94.0 | 79.9 | 49.0 | 621 | 90 | 33 | 9 | 558 | 18 |
| 19 | 89.0 | 77.2 | 49.0 | 623 | 93 | 37 | 7 | 560 | 19 |
| 20 | 88.0 | 75.3 | 49.0 | 621 | 94 | 40 | 11 | 558 | 20 |
| 21 | 88.0 | 74.2 | 50.0 | 620 | 100 | 41 | 11 | 557 | 21 |
| 22 | 86.0 | 73.0 | 49.0 | 622 | 100 | 43 | 10 | 559 | 22 |
| 23 | 88.0 | 72.0 | 49.0 | 623 | 99 | 45 | 12 | 560 | 23 |
| BY MONTH | 98.0 | 74.6 | 46.0 | 15227 | 100 | 42 | 6 | 13710 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| DEW POINT (DEG F) | | | | |
|-------------------|------|------|------|-----------------------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS |
| 0 | 67.0 | 47.2 | 10.0 | 642 |
| 1 | 65.0 | 47.3 | 13.0 | 640 |
| 2 | 63.0 | 47.4 | 16.0 | 638 |
| 3 | 64.0 | 47.7 | 14.0 | 640 |
| 4 | 65.0 | 47.8 | 16.0 | 641 |
| 5 | 65.0 | 47.9 | 3.0 | 641 |
| 6 | 66.0 | 48.1 | 19.0 | 639 |
| 7 | 64.0 | 48.8 | 18.0 | 637 |
| 8 | 65.0 | 49.0 | 21.0 | 637 |
| 9 | 68.0 | 48.9 | 20.0 | 637 |
| 10 | 67.0 | 48.5 | 13.0 | 638 |
| 11 | 67.0 | 48.1 | 21.0 | 638 |
| 12 | 69.0 | 47.5 | 1.0 | 640 |
| 13 | 71.0 | 46.7 | 7.0 | 641 |
| 14 | 66.0 | 45.7 | 7.0 | 639 |
| 15 | 68.0 | 45.3 | 16.0 | 638 |
| 16 | 65.0 | 44.9 | 10.0 | 640 |
| 17 | 77.0 | 45.1 | 15.0 | 630 |
| 18 | 66.0 | 45.8 | 15.0 | 621 |
| 19 | 67.0 | 46.5 | 14.0 | 623 |
| 20 | 68.0 | 46.6 | 4.0 | 621 |
| 21 | 69.0 | 46.7 | 16.0 | 620 |
| 22 | 68.0 | 46.7 | 16.0 | 622 |
| 23 | 68.0 | 47.0 | 15.0 | 623 |
| BY MONTH | 77.0 | 47.1 | 1.0 | 15226 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF OCTOBER

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | | | |
|-------------------------------|------|------|------|-----------------------------|------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 80.0 | 61.1 | 38.0 | 672 | 100 | 42 | 8 | 602 | 0 |
| 1 | 79.0 | 59.9 | 37.0 | 672 | 100 | 44 | 10 | 602 | 1 |
| 2 | 79.0 | 59.0 | 36.0 | 673 | 100 | 45 | 10 | 603 | 2 |
| 3 | 78.0 | 57.9 | 38.0 | 673 | 100 | 47 | 9 | 603 | 3 |
| 4 | 75.0 | 56.9 | 36.0 | 673 | 100 | 49 | 13 | 603 | 4 |
| 5 | 75.0 | 55.9 | 35.0 | 672 | 100 | 50 | 7 | 602 | 5 |
| 6 | 74.0 | 54.8 | 34.0 | 676 | 100 | 52 | 15 | 606 | 6 |
| 7 | 77.0 | 56.3 | 35.0 | 674 | 100 | 50 | 14 | 604 | 7 |
| 8 | 78.0 | 60.1 | 40.0 | 675 | 100 | 45 | 15 | 605 | 8 |
| 9 | 82.0 | 63.4 | 47.0 | 675 | 100 | 40 | 15 | 605 | 9 |
| 10 | 83.0 | 66.5 | 38.0 | 673 | 100 | 36 | 8 | 603 | 10 |
| 11 | 87.0 | 69.3 | 42.0 | 676 | 100 | 33 | 8 | 606 | 11 |
| 12 | 90.0 | 71.7 | 43.0 | 673 | 98 | 31 | 9 | 603 | 12 |
| 13 | 90.0 | 73.5 | 42.0 | 671 | 92 | 28 | 7 | 601 | 13 |
| 14 | 90.0 | 74.6 | 42.0 | 670 | 90 | 27 | 6 | 600 | 14 |
| 15 | 90.0 | 75.0 | 44.0 | 673 | 94 | 26 | 6 | 603 | 15 |
| 16 | 90.0 | 74.4 | 44.0 | 670 | 96 | 26 | 9 | 600 | 16 |
| 17 | 88.0 | 72.3 | 43.0 | 651 | 100 | 28 | 8 | 578 | 17 |
| 18 | 84.0 | 68.7 | 42.0 | 647 | 100 | 33 | 11 | 578 | 18 |
| 19 | 83.0 | 66.5 | 41.0 | 648 | 96 | 35 | 9 | 579 | 19 |
| 20 | 81.0 | 65.1 | 41.0 | 647 | 97 | 37 | 9 | 578 | 20 |
| 21 | 80.0 | 64.0 | 40.0 | 649 | 97 | 38 | 10 | 580 | 21 |
| 22 | 80.0 | 62.8 | 40.0 | 647 | 97 | 39 | 9 | 578 | 22 |
| 23 | 80.0 | 61.8 | 40.0 | 647 | 98 | 41 | 8 | 578 | 23 |
| BY MONTH | 92.0 | 64.6 | 33.0 | 15977 | 100 | 39 | 6 | 14300 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF OCTOBER

| DEW POINT (DEG F) | | | | | TOTAL |
|-------------------|------|------|-------|--------------|-------|
| HOUR | HIGH | MEAN | LOW | OBSERVATIONS | |
| 0 | 65.0 | 36.2 | -1.0 | 672 | |
| 1 | 65.0 | 36.2 | 7.0 | 672 | |
| 2 | 65.0 | 36.1 | 4.0 | 674 | |
| 3 | 65.0 | 36.3 | 1.0 | 673 | |
| 4 | 65.0 | 36.4 | 2.0 | 673 | |
| 5 | 64.0 | 36.4 | -10.0 | 672 | |
| 6 | 65.0 | 36.5 | .0 | 676 | |
| 7 | 65.0 | 37.0 | -1.0 | 674 | |
| 8 | 65.0 | 37.3 | -2.0 | 675 | |
| 9 | 71.0 | 37.4 | 7.0 | 675 | |
| 10 | 63.0 | 37.3 | -2.0 | 673 | |
| 11 | 65.0 | 37.2 | 4.0 | 676 | |
| 12 | 65.0 | 37.1 | .0 | 673 | |
| 13 | 64.0 | 36.5 | -3.0 | 671 | |
| 14 | 64.0 | 36.0 | 2.0 | 670 | |
| 15 | 63.0 | 35.4 | -2.0 | 673 | |
| 16 | 63.0 | 35.2 | 1.0 | 670 | |
| 17 | 63.0 | 35.5 | 6.0 | 651 | |
| 18 | 63.0 | 36.2 | 8.0 | 647 | |
| 19 | 63.0 | 36.2 | 3.0 | 648 | |
| 20 | 64.0 | 36.1 | 4.0 | 647 | |
| 21 | 63.0 | 35.8 | 5.0 | 649 | |
| 22 | 63.0 | 35.8 | 5.0 | 647 | |
| 23 | 64.0 | 35.8 | 2.0 | 647 | |
| BY MONTH | 71.0 | 36.3 | -10.0 | 15978 | |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF NOVEMBER

| DRY BULB TEMPERATURE (DEG F)* | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|--------------------|------|------|-----------------------------|------|-----|--------------------|------|
| HOUR | TOTAL OBSERVATIONS | | | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| | HIGH | MEAN | LOW | | | | | |
| 0 | 71.0 | 49.6 | 27.0 | 100 | 45 | 7 | 577 | 0 |
| 1 | 70.0 | 48.7 | 27.0 | 97 | 46 | 7 | 579 | 1 |
| 2 | 72.0 | 47.9 | 26.0 | 100 | 47 | 7 | 579 | 2 |
| 3 | 69.0 | 46.9 | 25.0 | 100 | 49 | 7 | 578 | 3 |
| 4 | 68.0 | 46.1 | 24.0 | 98 | 50 | 11 | 579 | 4 |
| 5 | 67.0 | 45.2 | 25.0 | 97 | 52 | 7 | 582 | 5 |
| 6 | 67.0 | 44.3 | 24.0 | 100 | 54 | 7 | 578 | 6 |
| 7 | 66.0 | 44.5 | 26.0 | 98 | 53 | 8 | 578 | 7 |
| 8 | 69.0 | 47.8 | 26.0 | 98 | 48 | 8 | 576 | 8 |
| 9 | 70.0 | 50.9 | 30.0 | 100 | 43 | 9 | 578 | 9 |
| 10 | 72.0 | 53.7 | 31.0 | 98 | 39 | 11 | 578 | 10 |
| 11 | 74.0 | 56.4 | 32.0 | 98 | 36 | 6 | 579 | 11 |
| 12 | 78.0 | 58.9 | 32.0 | 100 | 33 | 8 | 576 | 12 |
| 13 | 80.0 | 60.9 | 32.0 | 100 | 31 | 8 | 576 | 13 |
| 14 | 79.0 | 62.0 | 33.0 | 93 | 29 | 6 | 575 | 14 |
| 15 | 81.0 | 62.4 | 33.0 | 92 | 29 | 6 | 576 | 15 |
| 16 | 81.0 | 61.6 | 33.0 | 91 | 30 | 8 | 575 | 16 |
| 17 | 76.0 | 58.5 | 31.0 | 100 | 34 | 5 | 574 | 17 |
| 18 | 74.0 | 55.6 | 32.0 | 100 | 38 | 9 | 555 | 18 |
| 19 | 73.0 | 54.0 | 30.0 | 99 | 40 | 9 | 555 | 19 |
| 20 | 73.0 | 52.9 | 29.0 | 100 | 41 | 9 | 554 | 20 |
| 21 | 72.0 | 51.9 | 28.0 | 100 | 42 | 9 | 554 | 21 |
| 22 | 71.0 | 51.0 | 28.0 | 100 | 44 | 10 | 553 | 22 |
| 23 | 70.0 | 50.2 | 27.0 | 100 | 45 | 9 | 558 | 23 |
| BY MONTH | 84.0 | 52.6 | 24.0 | 100 | 42 | 3 | 13712 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF NOVEMBER

| DEW POINT (DEG F) | | | | TOTAL |
|-------------------|------|------|-------|--------------|
| HOUR | HIGH | MEAN | LOW | OBSERVATIONS |
| 0 | 51.0 | 27.4 | -4.0 | 634 |
| 1 | 49.0 | 27.3 | -8.0 | 636 |
| 2 | 51.0 | 27.2 | -12.0 | 636 |
| 3 | 51.0 | 27.2 | .0 | 635 |
| 4 | 51.0 | 27.1 | 1.0 | 636 |
| 5 | 50.0 | 27.1 | -3.0 | 639 |
| 6 | 52.0 | 27.2 | -2.0 | 635 |
| 7 | 51.0 | 27.2 | 1.0 | 635 |
| 8 | 52.0 | 27.7 | -5.0 | 633 |
| 9 | 52.0 | 27.6 | -4.0 | 636 |
| 10 | 53.0 | 27.7 | -5.0 | 636 |
| 11 | 53.0 | 27.6 | -9.0 | 637 |
| 12 | 54.0 | 27.7 | -5.0 | 634 |
| 13 | 53.0 | 27.4 | -8.0 | 634 |
| 14 | 54.0 | 27.2 | -8.0 | 633 |
| 15 | 54.0 | 27.1 | -5.0 | 634 |
| 16 | 51.0 | 26.9 | -2.0 | 633 |
| 17 | 53.0 | 28.2 | 3.0 | 630 |
| 18 | 52.0 | 28.4 | -1.0 | 615 |
| 19 | 51.0 | 28.2 | .0 | 615 |
| 20 | 51.0 | 28.0 | -2.0 | 614 |
| 21 | 53.0 | 27.7 | 3.0 | 614 |
| 22 | 50.0 | 27.8 | .0 | 613 |
| 23 | 50.0 | 27.6 | 1.0 | 618 |
| BY MONTH | 54.0 | 27.5 | -12.0 | 15115 |

TABLE III (CONT)

MEAN AND EXTREME DRY BULB TEMPERATURE AND RELATIVE HUMIDITY BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF DECEMBER

| DRY BULB TEMPERATURE (DEG F)* | | | | | RELATIVE HUMIDITY (PERCENT) | | | | |
|-------------------------------|------|------|------|-----------------------|-----------------------------|------|-----|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 69.0 | 42.4 | 18.0 | 634 | 100 | 50 | 10 | 593 | 0 |
| 1 | 68.0 | 41.7 | 18.0 | 637 | 100 | 52 | 8 | 596 | 1 |
| 2 | 67.0 | 41.0 | 15.0 | 638 | 100 | 53 | 15 | 597 | 2 |
| 3 | 67.0 | 40.1 | 13.0 | 638 | 100 | 54 | 15 | 597 | 3 |
| 4 | 67.0 | 37.4 | 15.0 | 638 | 100 | 55 | 5 | 597 | 4 |
| 5 | 68.0 | 38.7 | 10.0 | 639 | 100 | 56 | 10 | 598 | 5 |
| 6 | 67.0 | 38.0 | 8.0 | 638 | 100 | 57 | 12 | 597 | 6 |
| 7 | 67.0 | 37.5 | 9.0 | 639 | 100 | 58 | 13 | 595 | 7 |
| 8 | 68.0 | 39.8 | 10.0 | 650 | 100 | 55 | 12 | 596 | 8 |
| 9 | 71.0 | 42.9 | 19.0 | 648 | 100 | 50 | 12 | 594 | 9 |
| 10 | 71.0 | 45.6 | 23.0 | 648 | 100 | 46 | 9 | 594 | 10 |
| 11 | 70.0 | 48.2 | 24.0 | 650 | 100 | 42 | 6 | 596 | 11 |
| 12 | 71.0 | 50.6 | 25.0 | 645 | 100 | 38 | 6 | 592 | 12 |
| 13 | 77.0 | 52.6 | 25.0 | 646 | 100 | 36 | 6 | 593 | 13 |
| 14 | 76.0 | 53.9 | 26.0 | 644 | 99 | 34 | 4 | 591 | 14 |
| 15 | 77.0 | 54.3 | 26.0 | 646 | 99 | 34 | 8 | 593 | 15 |
| 16 | 76.0 | 53.5 | 27.0 | 645 | 100 | 35 | 8 | 594 | 16 |
| 17 | 72.0 | 50.5 | 27.0 | 622 | 100 | 39 | 9 | 581 | 17 |
| 18 | 69.0 | 47.7 | 25.0 | 616 | 100 | 43 | 7 | 578 | 18 |
| 19 | 72.0 | 46.4 | 24.0 | 616 | 100 | 44 | 13 | 578 | 19 |
| 20 | 70.0 | 45.6 | 23.0 | 614 | 100 | 46 | 11 | 576 | 20 |
| 21 | 70.0 | 44.8 | 22.0 | 612 | 100 | 47 | 13 | 574 | 21 |
| 22 | 70.0 | 44.0 | 21.0 | 615 | 100 | 48 | 11 | 577 | 22 |
| 23 | 69.0 | 43.2 | 19.0 | 618 | 100 | 49 | 10 | 580 | 23 |
| BY MONTH | 77.0 | 45.1 | 8.0 | 15236 | 100 | 47 | 4 | 14157 | |

* THE HIGH AND LOW DRY BULB TEMPERATURE FOR THE MONTH WILL NOT ALWAYS AGREE WITH THE HIGHEST OR LOWEST VALUE FOR THE INDIVIDUAL HOURS. THE HOURLY HIGH-LOW IS BASED ON THE TEMPERATURE READ AT THE TIME THE OBSERVATION IS TAKEN, WHILE THE MONTHLY VALUE IS BASED ON READINGS FROM MAXIMUM-MINIMUM THERMOMETERS OR A THERMOGRAPH TRACE.

TABLE III (CONT)

MEAN AND EXTREME DEW POINT BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF DECEMBER

| DEW POINT (DEG F) | | | | | TOTAL OBSERVATIONS |
|-------------------|------|------|-------|--|-----------------------|
| HOUR | HIGH | MEAN | LOW | | |
| 0 | 50.0 | 23.3 | -19.0 | | 634 |
| 1 | 49.0 | 23.3 | -6.0 | | 637 |
| 2 | 48.0 | 23.2 | -8.0 | | 638 |
| 3 | 47.0 | 23.1 | -7.0 | | 638 |
| 4 | 48.0 | 22.9 | -11.0 | | 638 |
| 5 | 48.0 | 22.9 | -12.0 | | 639 |
| 6 | 49.0 | 22.8 | -7.0 | | 638 |
| 7 | 45.0 | 22.8 | -7.0 | | 639 |
| 8 | 46.0 | 23.5 | -4.0 | | 650 |
| 9 | 47.0 | 24.0 | -2.0 | | 648 |
| 10 | 46.0 | 24.0 | -2.0 | | 648 |
| 11 | 48.0 | 23.9 | -10.0 | | 650 |
| 12 | 47.0 | 23.9 | -8.0 | | 645 |
| 13 | 46.0 | 24.0 | -8.0 | | 646 |
| 14 | 48.0 | 23.7 | -24.0 | | 644 |
| 15 | 48.0 | 23.7 | -7.0 | | 646 |
| 16 | 51.0 | 23.6 | -11.0 | | 645 |
| 17 | 51.0 | 24.0 | -13.0 | | 622 |
| 18 | 48.0 | 24.3 | -10.0 | | 616 |
| 19 | 47.0 | 24.0 | -3.0 | | 616 |
| 20 | 48.0 | 23.7 | -4.0 | | 614 |
| 21 | 51.0 | 23.9 | -8.0 | | 612 |
| 22 | 50.0 | 23.4 | -8.0 | | 615 |
| 23 | 50.0 | 23.3 | -5.0 | | 618 |
| BY MONTH | 51.0 | 23.6 | -24.0 | | 15236 |

TABLE IV

MONTHLY AND ANNUAL TEMPERATURE MEANS AND EXTREMES (°FAHRENHEIT) AT SEVEN WSMR SITES

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|----------------------|------------------------|-----|-----|-----|-----|-----|-----|----------------------------|-----|-----|-----|-----|--------|
| "A" Site | | | | | | | | | | | | | |
| | Elevation 4,238 FT MSL | | | | | | | Period of Record 1950-1973 | | | | | |
| Mean Max | 56 | 60 | 66 | 75 | 84 | 93 | 93 | 91 | 86 | 77 | 64 | 56 | 75 |
| Mean Min | 34 | 38 | 43 | 52 | 60 | 69 | 70 | 69 | 63 | 53 | 41 | 36 | 52 |
| Abs Max | 76 | 81 | 86 | 94 | 103 | 106 | 107 | 103 | 98 | 92 | 84 | 77 | 107 |
| Abs Min | -6 | 8 | 16 | 29 | 38 | 50 | 59 | 55 | 46 | 33 | 22 | 8 | -6 |
| WSD Site | | | | | | | | | | | | | |
| | Elevation 3,989 FT MSL | | | | | | | Period of Record 1962-1973 | | | | | |
| Mean Max | 57 | 61 | 68 | 78 | 87 | 94 | 95 | 92 | 87 | 78 | 66 | 57 | 77 |
| Mean Min | 25 | 29 | 36 | 46 | 53 | 62 | 67 | 64 | 58 | 45 | 33 | 27 | 45 |
| Abs Max | 78 | 81 | 89 | 97 | 100 | 108 | 108 | 104 | 98 | 94 | 83 | 75 | 108 |
| Abs Min | -14 | 5 | 6 | 19 | 26 | 41 | 57 | 51 | 37 | 22 | 12 | 5 | -14 |
| HMN Site | | | | | | | | | | | | | |
| | Elevation 4,090 FT MSL | | | | | | | Period of Record 1963-1973 | | | | | |
| Mean Max | 55 | 59 | 67 | 76 | 85 | 93 | 95 | 91 | 86 | 77 | 65 | 55 | 75 |
| Mean Min | 26 | 29 | 36 | 44 | 52 | 61 | 67 | 64 | 58 | 46 | 35 | 28 | 46 |
| Abs Max | 74 | 78 | 87 | 96 | 100 | 106 | 105 | 106 | 97 | 92 | 81 | 73 | 106 |
| Abs Min | -3 | 7 | 9 | 25 | 27 | 42 | 57 | 53 | 40 | 24 | 17 | 6 | -3 |
| SMR Site | | | | | | | | | | | | | |
| | Elevation 3,999 FT MSL | | | | | | | Period of Record 1963-1973 | | | | | |
| Mean Max | 56 | 60 | 68 | 77 | 86 | 92 | 95 | 91 | 86 | 77 | 65 | 56 | 76 |
| Mean Min | 27 | 31 | 39 | 48 | 56 | 63 | 68 | 65 | 60 | 47 | 37 | 29 | 48 |
| Abs Max | 78 | 83 | 87 | 96 | 100 | 106 | 108 | 103 | 98 | 93 | 82 | 74 | 108 |
| Abs Min | 4 | 7 | 9 | 22 | 32 | 42 | 59 | 57 | 42 | 23 | 16 | 6 | 4 |
| ATACHE Site | | | | | | | | | | | | | |
| | Elevation 3,956 FT MSL | | | | | | | Period of Record 1962-1973 | | | | | |
| Mean Max | 56 | 60 | 68 | 77 | 86 | 93 | 95 | 92 | 86 | 77 | 65 | 56 | 76 |
| Mean Min | 24 | 28 | 35 | 44 | 52 | 61 | 66 | 63 | 57 | 44 | 33 | 26 | 44 |
| Abs Max | 78 | 80 | 89 | 97 | 100 | 108 | 107 | 103 | 99 | 93 | 82 | 75 | 108 |
| Abs Min | -7 | 7 | 7 | 20 | 28 | 42 | 59 | 53 | 37 | 21 | 13 | 2 | -7 |
| JALLEN Site | | | | | | | | | | | | | |
| | Elevation 4,051 FT MSL | | | | | | | Period of Record 1963-1973 | | | | | |
| Mean Max | 55 | 59 | 67 | 76 | 86 | 92 | 95 | 91 | 85 | 77 | 64 | 55 | 75 |
| Mean Min | 25 | 29 | 35 | 44 | 52 | 61 | 67 | 65 | 57 | 46 | 34 | 27 | 45 |
| Abs Max | 76 | 81 | 89 | 98 | 98 | 108 | 106 | 106 | 98 | 92 | 84 | 76 | 108 |
| Abs Min | -2 | 5 | 7 | 22 | 30 | 43 | 58 | 50 | 37 | 28 | 16 | 7 | -2 |
| STALLION Site | | | | | | | | | | | | | |
| | Elevation 4,940 FT MSL | | | | | | | Period of Record 1962-1973 | | | | | |
| Mean Max | 51 | 55 | 63 | 72 | 82 | 89 | 92 | 89 | 83 | 73 | 61 | 51 | 72 |
| Mean Min | 21 | 25 | 31 | 39 | 48 | 57 | 64 | 61 | 54 | 43 | 31 | 23 | 41 |
| Abs Max | 72 | 77 | 85 | 93 | 97 | 101 | 104 | 101 | 95 | 90 | 79 | 71 | 104 |
| Abs Min | -16 | 2 | 6 | 17 | 30 | 40 | 54 | 47 | 35 | 20 | 14 | 2 | -16 |

TABLE V

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

1-15 JANUARY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 1 | 3 | 18 | 28 | 35 | 13 | 3 | 0 | 0 | 0 | 0 | 308 |
| 1 | 1 | 3 | 20 | 31 | 28 | 15 | 2 | 0 | 0 | 0 | 0 | 313 |
| 2 | 1 | 4 | 21 | 33 | 27 | 12 | 2 | 0 | 0 | 0 | 0 | 313 |
| 3 | 1 | 4 | 25 | 33 | 26 | 11 | 2 | 0 | 0 | 0 | 0 | 313 |
| 4 | 1 | 5 | 27 | 32 | 26 | 9 | 1 | 0 | 0 | 0 | 0 | 313 |
| 5 | 1 | 5 | 28 | 32 | 24 | 8 | 1 | 0 | 0 | 0 | 0 | 313 |
| 6 | 1 | 5 | 32 | 32 | 22 | 8 | 1 | 0 | 0 | 0 | 0 | 313 |
| 7 | 1 | 6 | 32 | 32 | 22 | 7 | 1 | 0 | 0 | 0 | 0 | 313 |
| 8 | 1 | 5 | 26 | 31 | 29 | 8 | 2 | 0 | 0 | 0 | 0 | 314 |
| 9 | 0 | 3 | 14 | 31 | 39 | 11 | 2 | 0 | 0 | 0 | 0 | 314 |
| 10 | 0 | 2 | 11 | 21 | 41 | 22 | 3 | 0 | 0 | 0 | 0 | 314 |
| 11 | 0 | 2 | 8 | 14 | 43 | 26 | 6 | 0 | 0 | 0 | 0 | 313 |
| 12 | 0 | 1 | 7 | 11 | 35 | 37 | 9 | 0 | 0 | 0 | 0 | 314 |
| 13 | 0 | 1 | 4 | 9 | 30 | 41 | 15 | 0 | 0 | 0 | 0 | 313 |
| 14 | 0 | 1 | 4 | 6 | 26 | 42 | 21 | 0 | 0 | 0 | 0 | 314 |
| 15 | 0 | 1 | 4 | 5 | 24 | 41 | 23 | 1 | 0 | 0 | 0 | 317 |
| 16 | 0 | 1 | 3 | 6 | 27 | 42 | 20 | 1 | 0 | 0 | 0 | 316 |
| 17 | 0 | 1 | 5 | 9 | 38 | 39 | 9 | 0 | 0 | 0 | 0 | 315 |
| 18 | 0 | 1 | 8 | 13 | 47 | 26 | 4 | 0 | 0 | 0 | 0 | 311 |
| 19 | 0 | 2 | 8 | 18 | 47 | 21 | 4 | 0 | 0 | 0 | 0 | 306 |
| 20 | 0 | 2 | 9 | 23 | 42 | 20 | 3 | 0 | 0 | 0 | 0 | 305 |
| 21 | 1 | 2 | 11 | 26 | 40 | 17 | 3 | 0 | 0 | 0 | 0 | 306 |
| 22 | 1 | 2 | 14 | 26 | 39 | 15 | 3 | 0 | 0 | 0 | 0 | 306 |
| 23 | 1 | 3 | 16 | 29 | 36 | 14 | 2 | 0 | 0 | 0 | 0 | 306 |
| BY MONTH | 7 | 3 | 15 | 22 | 33 | 21 | 6 | 0 | 0 | 0 | 0 | 7477 |

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 JANUARY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10 | <9 | >10 | <19 | >20 | <32 | >33 | <39 | >40 | <49 | >50 | <59 | >60 | <69 | >70 | <79 | >80 | <89 | >90 | <99 | >100 | OBSERVATIONS |
|----------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 10 | 17 | 38 | 26 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 343 |
| 1 | 0 | 0 | 0 | 0 | 13 | 18 | 40 | 23 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 2 | 0 | 0 | 0 | 0 | 14 | 21 | 38 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 3 | 0 | 0 | 0 | 0 | 17 | 20 | 38 | 19 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 4 | 0 | 0 | 0 | 0 | 19 | 24 | 37 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 5 | 0 | 0 | 0 | 0 | 21 | 24 | 36 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 6 | 0 | 0 | 0 | 0 | 21 | 27 | 35 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 |
| 7 | 0 | 0 | 0 | 0 | 24 | 29 | 31 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 346 |
| 8 | 0 | 0 | 0 | 0 | 19 | 27 | 36 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 346 |
| 9 | 0 | 0 | 0 | 0 | 8 | 22 | 44 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 346 |
| 10 | 0 | 0 | 0 | 0 | 5 | 14 | 37 | 36 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 346 |
| 11 | 0 | 0 | 0 | 0 | 3 | 10 | 33 | 40 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 346 |
| 12 | 0 | 0 | 0 | 0 | 2 | 6 | 27 | 41 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 |
| 13 | 0 | 0 | 0 | 0 | 1 | 5 | 22 | 40 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 |
| 14 | 0 | 0 | 0 | 0 | 1 | 4 | 18 | 35 | 38 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344 |
| 15 | 0 | 0 | 0 | 0 | 0 | 4 | 16 | 34 | 40 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 |
| 16 | 0 | 0 | 0 | 0 | 1 | 4 | 17 | 36 | 37 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 345 |
| 17 | 0 | 0 | 0 | 0 | 1 | 6 | 19 | 40 | 32 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 338 |
| 18 | 0 | 0 | 0 | 0 | 2 | 9 | 25 | 45 | 18 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| 19 | 0 | 0 | 0 | 0 | 2 | 13 | 32 | 37 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332 |
| 20 | 0 | 0 | 0 | 0 | 5 | 13 | 34 | 35 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| 21 | 0 | 0 | 0 | 0 | 7 | 13 | 34 | 35 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332 |
| 22 | 0 | 0 | 0 | 0 | 8 | 16 | 36 | 31 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| 23 | 0 | 0 | 0 | 0 | 8 | 16 | 40 | 27 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| BY MONTH | 0 | 0 | 0 | 0 | 9 | 15 | 32 | 29 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2196 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 FEBRUARY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >=10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 1 | 10 | 10 | 41 | 24 | 9 | 0 | 0 | 0 | 0 | 322 |
| 1 | 0 | 2 | 11 | 17 | 39 | 22 | 7 | 0 | 0 | 0 | 0 | 323 |
| 2 | 0 | 2 | 11 | 20 | 41 | 20 | 6 | 0 | 0 | 0 | 0 | 323 |
| 3 | 0 | 2 | 14 | 22 | 39 | 19 | 5 | 0 | 0 | 0 | 0 | 323 |
| 4 | 0 | 2 | 16 | 23 | 38 | 19 | 3 | 0 | 0 | 0 | 0 | 322 |
| 5 | 0 | 1 | 18 | 24 | 37 | 17 | 2 | 0 | 0 | 0 | 0 | 323 |
| 6 | 0 | 2 | 21 | 25 | 36 | 15 | 2 | 0 | 0 | 0 | 0 | 322 |
| 7 | 0 | 2 | 22 | 29 | 33 | 13 | 2 | 0 | 0 | 0 | 0 | 322 |
| 8 | 0 | 2 | 15 | 25 | 39 | 17 | 3 | 0 | 0 | 0 | 0 | 322 |
| 9 | 0 | 1 | 8 | 18 | 43 | 25 | 6 | 0 | 0 | 0 | 0 | 322 |
| 10 | 0 | 1 | 7 | 13 | 33 | 35 | 11 | 0 | 0 | 0 | 0 | 322 |
| 11 | 0 | 0 | 5 | 9 | 29 | 41 | 16 | 0 | 0 | 0 | 0 | 322 |
| 12 | 0 | 0 | 4 | 7 | 22 | 38 | 24 | 2 | 0 | 0 | 0 | 323 |
| 13 | 0 | 0 | 4 | 5 | 20 | 35 | 31 | 5 | 0 | 0 | 0 | 323 |
| 14 | 0 | 0 | 3 | 4 | 19 | 31 | 32 | 10 | 0 | 0 | 0 | 323 |
| 15 | 0 | 0 | 3 | 3 | 16 | 31 | 35 | 11 | 0 | 0 | 0 | 323 |
| 16 | 0 | 0 | 3 | 4 | 17 | 30 | 35 | 11 | 0 | 0 | 0 | 322 |
| 17 | 0 | 0 | 3 | 5 | 19 | 36 | 32 | 5 | 0 | 0 | 0 | 317 |
| 18 | 0 | 0 | 4 | 6 | 25 | 40 | 21 | 2 | 0 | 0 | 0 | 313 |
| 19 | 0 | 0 | 5 | 17 | 32 | 36 | 15 | 1 | 0 | 0 | 0 | 313 |
| 20 | 0 | 1 | 6 | 12 | 35 | 32 | 13 | 1 | 0 | 0 | 0 | 312 |
| 21 | 0 | 1 | 7 | 15 | 36 | 29 | 12 | 0 | 0 | 0 | 0 | 313 |
| 22 | 0 | 1 | 8 | 16 | 37 | 28 | 9 | 0 | 0 | 0 | 0 | 313 |
| 23 | 0 | 1 | 10 | 18 | 37 | 26 | 8 | 0 | 0 | 0 | 0 | 311 |
| BY MONTH | 0 | 1 | 9 | 15 | 32 | 27 | 14 | 2 | 0 | 0 | 0 | 7674 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)

A STATION - "WHITE SANDS MISSILE RANGE - NEW MEXICO"
PERIOD OF RECORD 1951 - 1973

16-29 FEBRUARY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >=10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 6 | 15 | 40 | 30 | 5 | 0 | 0 | 0 | 0 | 281 |
| 1 | 0 | 0 | 7 | 15 | 40 | 28 | 7 | 0 | 0 | 0 | 0 | 281 |
| 2 | 0 | 0 | 7 | 20 | 44 | 24 | 6 | 0 | 0 | 0 | 0 | 280 |
| 3 | 0 | 0 | 8 | 23 | 41 | 25 | 3 | 0 | 0 | 0 | 0 | 280 |
| 4 | 0 | 0 | 11 | 24 | 41 | 20 | 3 | 0 | 0 | 0 | 0 | 282 |
| 5 | 0 | 0 | 14 | 24 | 40 | 19 | 2 | 0 | 0 | 0 | 0 | 282 |
| 6 | 0 | 0 | 16 | 26 | 38 | 18 | 1 | 0 | 0 | 0 | 0 | 281 |
| 7 | 0 | 0 | 15 | 31 | 36 | 15 | 2 | 0 | 0 | 0 | 0 | 282 |
| 8 | 0 | 0 | 8 | 21 | 47 | 21 | 2 | 0 | 0 | 0 | 0 | 281 |
| 9 | 0 | 0 | 5 | 16 | 42 | 32 | 5 | 0 | 0 | 0 | 0 | 282 |
| 10 | 0 | 0 | 2 | 10 | 36 | 39 | 12 | 0 | 0 | 0 | 0 | 282 |
| 11 | 0 | 0 | 1 | 7 | 28 | 41 | 22 | 1 | 0 | 0 | 0 | 282 |
| 12 | 0 | 0 | 1 | 4 | 21 | 42 | 29 | 2 | 0 | 0 | 0 | 282 |
| 13 | 0 | 0 | 1 | 3 | 18 | 38 | 34 | 6 | 0 | 0 | 0 | 281 |
| 14 | 0 | 0 | 0 | 2 | 14 | 37 | 37 | 10 | 0 | 0 | 0 | 281 |
| 15 | 0 | 0 | 0 | 2 | 11 | 35 | 40 | 11 | 0 | 0 | 0 | 282 |
| 16 | 0 | 0 | 0 | 2 | 11 | 36 | 40 | 10 | 0 | 0 | 0 | 282 |
| 17 | 0 | 0 | 1 | 3 | 14 | 37 | 37 | 9 | 0 | 0 | 0 | 277 |
| 18 | 0 | 0 | 1 | 6 | 20 | 43 | 28 | 2 | 0 | 0 | 0 | 273 |
| 19 | 0 | 0 | 0 | 9 | 26 | 40 | 23 | 1 | 0 | 0 | 0 | 272 |
| 20 | 0 | 0 | 1 | 9 | 33 | 39 | 17 | 0 | 0 | 0 | 0 | 273 |
| 21 | 0 | 0 | 3 | 9 | 37 | 34 | 16 | 0 | 0 | 0 | 0 | 273 |
| 22 | 0 | 0 | 4 | 12 | 37 | 33 | 14 | 0 | 0 | 0 | 0 | 273 |
| 23 | 0 | 0 | 4 | 14 | 39 | 30 | 12 | 0 | 0 | 0 | 0 | 273 |
| BY MONTH | 0 | 0 | 5 | 13 | 32 | 31 | 17 | 2 | 0 | 0 | 0 | 4698 |

Reproduced from
best available copy.

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 MARCH

DRY BULB TEMPERATURE (DEG F)

| HOUR | >=10<9 | 8<7<6 | 5<4<3 | 2<1<0 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 3 | 14 | 34 | 26 | 17 | 1 | 0 | 0 | 0 | 322 |
| 1 | 0 | 0 | 0 | 0 | 4 | 16 | 34 | 28 | 16 | 1 | 0 | 0 | 0 | 323 |
| 2 | 0 | 0 | 0 | 0 | 5 | 18 | 39 | 24 | 14 | 1 | 0 | 0 | 0 | 322 |
| 3 | 0 | 0 | 0 | 0 | 7 | 19 | 38 | 24 | 11 | 0 | 0 | 0 | 0 | 323 |
| 4 | 0 | 0 | 0 | 0 | 9 | 20 | 40 | 22 | 8 | 1 | 0 | 0 | 0 | 323 |
| 5 | 0 | 0 | 0 | 0 | 10 | 24 | 38 | 22 | 6 | 0 | 0 | 0 | 0 | 323 |
| 6 | 0 | 0 | 0 | 0 | 12 | 24 | 37 | 21 | 6 | 0 | 0 | 0 | 0 | 323 |
| 7 | 0 | 0 | 0 | 0 | 11 | 22 | 39 | 22 | 6 | 0 | 0 | 0 | 0 | 323 |
| 8 | 0 | 0 | 0 | 0 | 4 | 17 | 42 | 27 | 10 | 0 | 0 | 0 | 0 | 322 |
| 9 | 0 | 0 | 0 | 0 | 3 | 12 | 35 | 35 | 14 | 1 | 0 | 0 | 0 | 322 |
| 10 | 0 | 0 | 0 | 0 | 2 | 6 | 30 | 37 | 24 | 2 | 0 | 0 | 0 | 323 |
| 11 | 0 | 0 | 0 | 0 | 1 | 4 | 19 | 40 | 31 | 5 | 0 | 0 | 0 | 321 |
| 12 | 0 | 0 | 0 | 0 | 1 | 2 | 16 | 35 | 36 | 10 | 0 | 0 | 0 | 323 |
| 13 | 0 | 0 | 0 | 0 | 1 | 1 | 15 | 31 | 35 | 17 | 1 | 0 | 0 | 322 |
| 14 | 0 | 0 | 0 | 0 | 1 | 2 | 12 | 28 | 35 | 22 | 1 | 0 | 0 | 321 |
| 15 | 0 | 0 | 0 | 0 | 1 | 2 | 10 | 30 | 33 | 23 | 2 | 0 | 0 | 322 |
| 16 | 0 | 0 | 0 | 0 | 1 | 2 | 9 | 30 | 33 | 24 | 1 | 0 | 0 | 322 |
| 17 | 0 | 0 | 0 | 0 | 0 | 2 | 12 | 31 | 33 | 21 | 1 | 0 | 0 | 317 |
| 18 | 0 | 0 | 0 | 0 | 1 | 2 | 17 | 31 | 36 | 13 | 0 | 0 | 0 | 311 |
| 19 | 0 | 0 | 0 | 0 | 1 | 3 | 23 | 33 | 32 | 8 | 0 | 0 | 0 | 312 |
| 20 | 0 | 0 | 0 | 0 | 2 | 4 | 28 | 32 | 28 | 5 | 0 | 0 | 0 | 313 |
| 21 | 0 | 0 | 0 | 0 | 2 | 7 | 29 | 33 | 26 | 4 | 0 | 0 | 0 | 314 |
| 22 | 0 | 0 | 0 | 0 | 2 | 10 | 31 | 31 | 24 | 3 | 0 | 0 | 0 | 313 |
| 23 | 0 | 0 | 0 | 0 | 2 | 12 | 33 | 29 | 22 | 1 | 0 | 0 | 0 | 313 |
| BY MONTH | 0 | 0 | 0 | 0 | 4 | 10 | 27 | 29 | 22 | 7 | 0 | 0 | 0 | 7673 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 MARCH

DRY BULB TEMPERATURE (DEG F)

| HOUR | >=10<9 | >10<11 | >20<31 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 1 | 5 | 23 | 39 | 28 | 3 | 0 | 0 | 0 | 342 |
| 1 | 0 | 0 | 1 | 6 | 25 | 40 | 24 | 3 | 0 | 0 | 0 | 342 |
| 2 | 0 | 0 | 3 | 7 | 26 | 41 | 21 | 2 | 0 | 0 | 0 | 342 |
| 3 | 0 | 0 | 3 | 9 | 28 | 39 | 18 | 2 | 0 | 0 | 0 | 342 |
| 4 | 0 | 0 | 4 | 9 | 34 | 35 | 18 | 1 | 0 | 0 | 0 | 342 |
| 5 | 0 | 0 | 4 | 12 | 35 | 35 | 15 | 0 | 0 | 0 | 0 | 342 |
| 6 | 0 | 0 | 5 | 12 | 39 | 32 | 12 | 0 | 0 | 0 | 0 | 342 |
| 7 | 0 | 0 | 4 | 9 | 37 | 36 | 13 | 0 | 0 | 0 | 0 | 340 |
| 8 | 0 | 0 | 2 | 5 | 30 | 41 | 21 | 1 | 0 | 0 | 0 | 341 |
| 9 | 0 | 0 | 1 | 3 | 22 | 38 | 33 | 1 | 0 | 0 | 0 | 341 |
| 10 | 0 | 0 | 1 | 2 | 13 | 35 | 44 | 3 | 0 | 0 | 0 | 341 |
| 11 | 0 | 0 | 0 | 2 | 9 | 29 | 46 | 5 | 0 | 0 | 0 | 340 |
| 12 | 0 | 0 | 0 | 2 | 5 | 27 | 41 | 13 | 0 | 0 | 0 | 341 |
| 13 | 0 | 0 | 0 | 1 | 4 | 22 | 39 | 24 | 1 | 0 | 0 | 342 |
| 14 | 0 | 0 | 0 | 1 | 4 | 19 | 34 | 31 | 2 | 0 | 0 | 340 |
| 15 | 0 | 0 | 0 | 1 | 4 | 18 | 32 | 39 | 3 | 0 | 0 | 342 |
| 16 | 0 | 0 | 0 | 1 | 4 | 16 | 34 | 41 | 4 | 0 | 0 | 341 |
| 17 | 0 | 0 | 0 | 1 | 5 | 18 | 34 | 42 | 4 | 0 | 0 | 342 |
| 18 | 0 | 0 | 0 | 1 | 6 | 21 | 41 | 38 | 3 | 0 | 0 | 330 |
| 19 | 0 | 0 | 0 | 1 | 9 | 28 | 46 | 29 | 2 | 0 | 0 | 325 |
| 20 | 0 | 0 | 0 | 1 | 14 | 28 | 45 | 17 | 0 | 0 | 0 | 325 |
| 21 | 0 | 0 | 0 | 2 | 18 | 29 | 42 | 11 | 0 | 0 | 0 | 326 |
| 22 | 0 | 0 | 0 | 2 | 19 | 33 | 37 | 8 | 0 | 0 | 0 | 326 |
| 23 | 0 | 0 | 0 | 5 | 19 | 38 | 31 | 7 | 0 | 0 | 0 | 325 |
| BY MONTH | 0 | 0 | 1 | 4 | 18 | 31 | 31 | 14 | 1 | 0 | 0 | 8085 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

1-15 APRIL

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10 | <9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 1 | 13 | 34 | 40 | 11 | 0 | 0 | 0 | 318 |
| 1 | 0 | 0 | 0 | 0 | 3 | 16 | 37 | 34 | 9 | 0 | 0 | 0 | 319 |
| 2 | 0 | 0 | 0 | 0 | 3 | 19 | 39 | 33 | 6 | 0 | 0 | 0 | 319 |
| 3 | 0 | 0 | 0 | 0 | 4 | 23 | 39 | 30 | 5 | 0 | 0 | 0 | 318 |
| 4 | 0 | 0 | 0 | 0 | 4 | 27 | 40 | 25 | 4 | 0 | 0 | 0 | 319 |
| 5 | 0 | 0 | 0 | 0 | 6 | 31 | 36 | 24 | 3 | 0 | 0 | 0 | 318 |
| 6 | 0 | 0 | 0 | 1 | 6 | 30 | 41 | 20 | 2 | 0 | 0 | 0 | 319 |
| 7 | 0 | 0 | 0 | 0 | 3 | 26 | 44 | 25 | 2 | 0 | 0 | 0 | 318 |
| 8 | 0 | 0 | 0 | 0 | 0 | 16 | 43 | 35 | 5 | 0 | 0 | 0 | 319 |
| 9 | 0 | 0 | 0 | 0 | 1 | 8 | 35 | 44 | 12 | 0 | 0 | 0 | 318 |
| 10 | 0 | 0 | 0 | 0 | 0 | 5 | 24 | 45 | 24 | 1 | 0 | 0 | 319 |
| 11 | 0 | 0 | 0 | 0 | 0 | 4 | 17 | 41 | 35 | 3 | 0 | 0 | 319 |
| 12 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 36 | 42 | 8 | 0 | 0 | 317 |
| 13 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 31 | 48 | 12 | 0 | 0 | 319 |
| 14 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 27 | 51 | 14 | 0 | 0 | 319 |
| 15 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 26 | 50 | 17 | 0 | 0 | 319 |
| 16 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 27 | 50 | 16 | 0 | 0 | 319 |
| 17 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 29 | 50 | 14 | 0 | 0 | 302 |
| 18 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 34 | 46 | 9 | 0 | 0 | 297 |
| 19 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 42 | 37 | 4 | 0 | 0 | 297 |
| 20 | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 46 | 29 | 1 | 0 | 0 | 297 |
| 21 | 0 | 0 | 0 | 0 | 0 | 5 | 24 | 46 | 24 | 1 | 0 | 0 | 296 |
| 22 | 0 | 0 | 0 | 0 | 1 | 7 | 27 | 47 | 18 | 0 | 0 | 0 | 295 |
| 23 | 0 | 0 | 0 | 0 | 1 | 9 | 30 | 45 | 15 | 0 | 0 | 0 | 297 |
| BY MONTH | 0 | 0 | 0 | 0 | 1 | 11 | 25 | 35 | 24 | 4 | 0 | 0 | 7496 |

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO
PERIOD OF RECORD 1951 - 1973

16-30 APRIL

DRY BULB TEMPERATURE (DEG F)

| HOUR | >10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 4 | 30 | 47 | 20 | 0 | 0 | 0 | 322 |
| 1 | 0 | 0 | 0 | 0 | 5 | 34 | 44 | 15 | 1 | 0 | 0 | 322 |
| 2 | 0 | 0 | 0 | 0 | 7 | 37 | 46 | 10 | 0 | 0 | 0 | 322 |
| 3 | 0 | 0 | 0 | 0 | 8 | 42 | 42 | 7 | 0 | 0 | 0 | 322 |
| 4 | 0 | 0 | 0 | 0 | 12 | 44 | 39 | 4 | 0 | 0 | 0 | 322 |
| 5 | 0 | 0 | 0 | 0 | 16 | 47 | 34 | 3 | 0 | 0 | 0 | 322 |
| 6 | 0 | 0 | 0 | 0 | 17 | 47 | 33 | 2 | 0 | 0 | 0 | 323 |
| 7 | 0 | 0 | 0 | 0 | 7 | 45 | 43 | 5 | 0 | 0 | 0 | 323 |
| 8 | 0 | 0 | 0 | 0 | 4 | 30 | 54 | 12 | 0 | 0 | 0 | 323 |
| 9 | 0 | 0 | 0 | 0 | 2 | 22 | 51 | 25 | 0 | 0 | 0 | 323 |
| 10 | 0 | 0 | 0 | 0 | 1 | 11 | 48 | 39 | 1 | 0 | 0 | 322 |
| 11 | 0 | 0 | 0 | 0 | 1 | 7 | 37 | 49 | 2 | 0 | 0 | 321 |
| 12 | 0 | 0 | 0 | 0 | 1 | 5 | 28 | 56 | 6 | 0 | 0 | 323 |
| 13 | 0 | 0 | 0 | 0 | 0 | 3 | 23 | 54 | 19 | 0 | 0 | 323 |
| 14 | 0 | 0 | 0 | 0 | 0 | 3 | 18 | 51 | 27 | 1 | 0 | 322 |
| 15 | 0 | 0 | 0 | 0 | 0 | 4 | 15 | 50 | 30 | 1 | 0 | 322 |
| 16 | 0 | 0 | 0 | 0 | 0 | 4 | 15 | 52 | 29 | 1 | 0 | 322 |
| 17 | 0 | 0 | 0 | 0 | 0 | 3 | 15 | 54 | 27 | 1 | 0 | 305 |
| 18 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 57 | 17 | 1 | 0 | 302 |
| 19 | 0 | 0 | 0 | 0 | 1 | 7 | 32 | 51 | 8 | 0 | 0 | 300 |
| 20 | 0 | 0 | 0 | 0 | 2 | 10 | 42 | 42 | 4 | 0 | 0 | 302 |
| 21 | 0 | 0 | 0 | 0 | 2 | 15 | 45 | 37 | 2 | 0 | 0 | 302 |
| 22 | 0 | 0 | 0 | 0 | 3 | 18 | 47 | 31 | 1 | 0 | 0 | 301 |
| 23 | 0 | 0 | 0 | 0 | 3 | 23 | 49 | 24 | 1 | 0 | 0 | 301 |
| BY MONTH | 0 | 0 | 0 | 0 | 4 | 21 | 36 | 31 | 8 | 0 | 0 | 7592 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

1-15 MAY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 2 | 20 | 41 | 32 | 5 | 0 | 0 | 322 |
| 1 | 0 | 0 | 0 | 0 | 3 | 23 | 42 | 30 | 2 | 0 | 0 | 323 |
| 2 | 0 | 0 | 0 | 0 | 4 | 26 | 43 | 26 | 2 | 0 | 0 | 324 |
| 3 | 0 | 0 | 0 | 0 | 5 | 32 | 43 | 19 | 1 | 0 | 0 | 324 |
| 4 | 0 | 0 | 0 | 0 | 6 | 36 | 40 | 16 | 0 | 0 | 0 | 324 |
| 5 | 0 | 0 | 0 | 0 | 9 | 38 | 40 | 13 | 0 | 0 | 0 | 324 |
| 6 | 0 | 0 | 0 | 0 | 7 | 37 | 43 | 13 | 0 | 0 | 0 | 323 |
| 7 | 0 | 0 | 0 | 0 | 3 | 29 | 48 | 19 | 1 | 0 | 0 | 324 |
| 8 | 0 | 0 | 0 | 0 | 1 | 18 | 47 | 32 | 3 | 0 | 0 | 324 |
| 9 | 0 | 0 | 0 | 0 | 0 | 11 | 36 | 45 | 7 | 0 | 0 | 323 |
| 10 | 0 | 0 | 0 | 0 | 0 | 7 | 28 | 47 | 18 | 0 | 0 | 324 |
| 11 | 0 | 0 | 0 | 0 | 0 | 3 | 21 | 48 | 27 | 1 | 0 | 324 |
| 12 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 43 | 36 | 2 | 0 | 323 |
| 13 | 0 | 0 | 0 | 0 | 0 | 2 | 12 | 37 | 44 | 5 | 0 | 323 |
| 14 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 35 | 45 | 10 | 0 | 323 |
| 15 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 34 | 48 | 6 | 0 | 323 |
| 16 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 36 | 48 | 4 | 0 | 323 |
| 17 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 32 | 51 | 1 | 0 | 307 |
| 18 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 41 | 43 | 1 | 0 | 301 |
| 19 | 0 | 0 | 0 | 0 | 0 | 4 | 17 | 49 | 30 | 0 | 0 | 301 |
| 20 | 0 | 0 | 0 | 0 | 0 | 6 | 23 | 54 | 17 | 0 | 0 | 301 |
| 21 | 0 | 0 | 0 | 0 | 1 | 9 | 29 | 50 | 12 | 0 | 0 | 300 |
| 22 | 0 | 0 | 0 | 0 | 1 | 11 | 33 | 47 | 8 | 0 | 0 | 301 |
| 23 | 0 | 0 | 0 | 0 | 1 | 15 | 39 | 40 | 6 | 0 | 0 | 301 |
| BY MONTH | 0 | 0 | 0 | 0 | 2 | 14 | 29 | 35 | 19 | 2 | 0 | 7610 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 MAY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 4 | 38 | 51 | 7 | 0 | 0 | 330 |
| 1 | 0 | 0 | 0 | 0 | 0 | 6 | 43 | 47 | 4 | 0 | 0 | 329 |
| 2 | 0 | 0 | 0 | 0 | 0 | 10 | 46 | 41 | 2 | 0 | 0 | 330 |
| 3 | 0 | 0 | 0 | 0 | 0 | 13 | 52 | 33 | 2 | 0 | 0 | 330 |
| 4 | 0 | 0 | 0 | 0 | 0 | 18 | 52 | 28 | 1 | 0 | 0 | 343 |
| 5 | 0 | 0 | 0 | 0 | 0 | 21 | 58 | 20 | 1 | 0 | 0 | 343 |
| 6 | 0 | 0 | 0 | 0 | 0 | 15 | 60 | 24 | 1 | 0 | 0 | 341 |
| 7 | 0 | 0 | 0 | 0 | 0 | 6 | 49 | 42 | 3 | 0 | 0 | 340 |
| 8 | 0 | 0 | 0 | 0 | 0 | 2 | 32 | 59 | 6 | 1 | 0 | 341 |
| 9 | 0 | 0 | 0 | 0 | 0 | 1 | 19 | 61 | 18 | 1 | 0 | 340 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 52 | 36 | 1 | 0 | 341 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 41 | 49 | 4 | 0 | 340 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 31 | 56 | 9 | 0 | 342 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 59 | 15 | 1 | 341 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 17 | 62 | 18 | 1 | 342 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 61 | 21 | 1 | 341 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 15 | 60 | 21 | 1 | 342 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 16 | 60 | 19 | 1 | 324 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 20 | 63 | 11 | 0 | 321 |
| 19 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 33 | 57 | 2 | 0 | 321 |
| 20 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 45 | 43 | 1 | 0 | 307 |
| 21 | 0 | 0 | 0 | 0 | 0 | 2 | 15 | 54 | 29 | 1 | 0 | 306 |
| 22 | 0 | 0 | 0 | 0 | 0 | 1 | 23 | 55 | 21 | 1 | 0 | 306 |
| 23 | 0 | 0 | 0 | 0 | 0 | 2 | 30 | 54 | 14 | 0 | 0 | 305 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 4 | 24 | 36 | 30 | 5 | 0 | 7946 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1977

1-15 JUNE

DAY BULB TEMPERATURE (DEG F)

| HOUR | >-10≤9 | >10≤19 | >20≤31 | >32≤39 | >40≤49 | >50≤59 | >60≤69 | >70≤79 | >80≤89 | >90≤99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 17 | 59 | 22 | 0 | 0 | 295 |
| 1 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 60 | 15 | 0 | 0 | 306 |
| 2 | 0 | 0 | 0 | 0 | 0 | 3 | 24 | 62 | 11 | 0 | 0 | 303 |
| 3 | 0 | 0 | 0 | 0 | 0 | 5 | 33 | 57 | 5 | 0 | 0 | 304 |
| 4 | 0 | 0 | 0 | 0 | 0 | 5 | 45 | 48 | 2 | 0 | 0 | 321 |
| 5 | 0 | 0 | 0 | 0 | 0 | 7 | 49 | 41 | 2 | 0 | 0 | 321 |
| 6 | 0 | 0 | 0 | 0 | 0 | 5 | 40 | 51 | 4 | 0 | 0 | 318 |
| 7 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 64 | 12 | 0 | 0 | 319 |
| 8 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 63 | 23 | 0 | 0 | 318 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 49 | 44 | 1 | 0 | 319 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 32 | 58 | 5 | 0 | 318 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 62 | 13 | 0 | 320 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 62 | 23 | 0 | 320 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 54 | 36 | 0 | 319 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 48 | 44 | 1 | 318 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 46 | 46 | 1 | 318 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 46 | 46 | 0 | 319 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 48 | 43 | 0 | 313 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 54 | 31 | 0 | 301 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 16 | 66 | 12 | 0 | 301 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 23 | 69 | 1 | 0 | 285 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 36 | 54 | 1 | 0 | 285 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 46 | 42 | 1 | 0 | 285 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 51 | 34 | 1 | 0 | 288 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 35 | 37 | 13 | 0 | 7414 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-30 JUNE

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | ≥ 100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 40 | 52 | 2 | 0 | 295 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 53 | 37 | 2 | 0 | 305 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 60 | 29 | 1 | 0 | 306 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 63 | 24 | 0 | 0 | 307 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 65 | 15 | 0 | 0 | 322 |
| 5 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 63 | 12 | 0 | 0 | 321 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 65 | 16 | 1 | 0 | 322 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 60 | 31 | 1 | 0 | 322 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 45 | 47 | 5 | 0 | 322 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | 61 | 12 | 0 | 322 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 61 | 24 | 0 | 322 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 54 | 38 | 2 | 322 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 38 | 54 | 3 | 322 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 26 | 63 | 8 | 321 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 21 | 64 | 12 | 321 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 19 | 65 | 13 | 320 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 17 | 67 | 13 | 322 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 20 | 65 | 9 | 316 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 29 | 60 | 4 | 301 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 42 | 48 | 0 | 300 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 59 | 26 | 0 | 287 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 19 | 66 | 11 | 0 | 287 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 26 | 61 | 9 | 0 | 286 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 32 | 57 | 6 | 0 | 285 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 28 | 37 | 26 | 3 | 7456 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 JULY

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | ≥100 | OBSERVATIONS |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 45 | 44 | 3 | 0 | 307 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 52 | 39 | 1 | 0 | 308 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 61 | 26 | 1 | 0 | 308 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 67 | 16 | 0 | 0 | 308 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 71 | 9 | 0 | 0 | 319 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 70 | 4 | 0 | 0 | 318 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 75 | 7 | 0 | 0 | 317 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 67 | 24 | 0 | 0 | 318 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 43 | 50 | 1 | 0 | 318 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 26 | 64 | 4 | 0 | 318 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 16 | 63 | 17 | 0 | 317 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 50 | 38 | 1 | 317 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 36 | 53 | 2 | 319 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 29 | 58 | 7 | 318 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 23 | 62 | 8 | 316 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 22 | 63 | 8 | 316 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 23 | 63 | 7 | 317 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 29 | 55 | 6 | 312 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 33 | 54 | 2 | 299 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 44 | 39 | 0 | 299 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 21 | 56 | 3 | 0 | 289 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 25 | 61 | 10 | 0 | 287 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 31 | 59 | 5 | 0 | 288 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 38 | 53 | 3 | 0 | 288 |

BY
MONTH

7421

2

23

36

32

7

0

0

0

0

0

0

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 JULY

DRY BULB TEMPERATURE (DEG F)

| HOUR | $\geq -10 \leq 9$ | $> 10 \leq 19$ | $\geq 20 \leq 29$ | $\geq 30 \leq 39$ | $\geq 40 \leq 49$ | $\geq 50 \leq 59$ | $\geq 60 \leq 69$ | $\geq 70 \leq 79$ | $\geq 80 \leq 89$ | $\geq 90 \leq 99$ | ≥ 100 | OBSERVATIONS |
|----------|-------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 52 | 41 | 1 | 0 | 330 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 64 | 26 | 0 | 0 | 346 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 69 | 18 | 0 | 0 | 346 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 72 | 10 | 0 | 0 | 346 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 75 | 4 | 0 | 0 | 346 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 70 | 2 | 0 | 0 | 346 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 74 | 3 | 0 | 0 | 346 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 78 | 12 | 0 | 0 | 345 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 58 | 38 | 0 | 0 | 345 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 36 | 61 | 0 | 0 | 344 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19 | 71 | 1 | 0 | 345 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 68 | 8 | 0 | 346 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 49 | 23 | 0 | 345 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 36 | 45 | 0 | 346 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 33 | 56 | 2 | 346 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 32 | 60 | 2 | 346 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 32 | 61 | 2 | 346 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 32 | 59 | 2 | 345 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 38 | 53 | 1 | 336 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 43 | 46 | 1 | 322 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 53 | 28 | 0 | 320 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 30 | 64 | 1 | 0 | 320 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 37 | 61 | 4 | 0 | 322 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 45 | 56 | 2 | 0 | 322 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 36 | 37 | 19 | 0 | 8122 |

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 AUGUST

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 61 | 30 | 0 | 0 | 314 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 66 | 23 | 0 | 0 | 322 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 72 | 13 | 0 | 0 | 322 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 70 | 8 | 0 | 0 | 322 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 67 | 4 | 0 | 0 | 322 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 64 | 3 | 0 | 0 | 321 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 64 | 2 | 0 | 0 | 321 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 76 | 8 | 0 | 0 | 322 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 63 | 32 | 0 | 0 | 322 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 41 | 57 | 1 | 0 | 322 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | 66 | 8 | 0 | 321 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 62 | 22 | 0 | 322 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 55 | 36 | 0 | 321 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 44 | 49 | 1 | 322 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 38 | 56 | 1 | 322 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 37 | 57 | 2 | 321 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 39 | 56 | 1 | 322 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 45 | 48 | 1 | 312 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 52 | 37 | 0 | 304 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 17 | 65 | 17 | 0 | 304 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 25 | 67 | 0 | 0 | 303 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 34 | 63 | 1 | 0 | 304 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 40 | 57 | 1 | 0 | 304 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 51 | 45 | 0 | 0 | 303 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 37 | 38 | 16 | 0 | 7595 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 AUGUST

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 65 | 21 | 0 | 0 | 342 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 69 | 13 | 0 | 0 | 344 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 67 | 8 | 0 | 0 | 344 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 64 | 5 | 0 | 0 | 343 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 58 | 2 | 0 | 0 | 344 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 49 | 1 | 0 | 0 | 343 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 46 | 1 | 0 | 0 | 341 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 72 | 3 | 0 | 0 | 343 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 75 | 15 | 0 | 0 | 343 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 57 | 39 | 0 | 0 | 343 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 31 | 64 | 2 | 0 | 343 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19 | 70 | 9 | 0 | 344 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 67 | 21 | 0 | 344 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 58 | 32 | 0 | 344 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 51 | 41 | 0 | 342 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 46 | 44 | 0 | 344 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 47 | 41 | 1 | 343 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 49 | 35 | 0 | 336 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 19 | 58 | 20 | 0 | 331 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 29 | 61 | 5 | 0 | 331 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 38 | 55 | 0 | 0 | 331 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 47 | 47 | 0 | 0 | 331 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 55 | 36 | 0 | 0 | 331 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 58 | 30 | 0 | 0 | 330 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 41 | 35 | 11 | 0 | MISS |

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best available copy.

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 SEPTEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 65 | 10 | 0 | 0 | 316 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 33 | 61 | 6 | 0 | 0 | 316 |
| 2 | 0 | 0 | 0 | 0 | 0 | 1 | 42 | 53 | 4 | 0 | 0 | 314 |
| 3 | 0 | 0 | 0 | 0 | 0 | 1 | 53 | 44 | 2 | 0 | 0 | 316 |
| 4 | 0 | 0 | 0 | 0 | 0 | 3 | 64 | 33 | 1 | 0 | 0 | 317 |
| 5 | 0 | 0 | 0 | 0 | 0 | 3 | 70 | 27 | 1 | 0 | 0 | 319 |
| 6 | 0 | 0 | 0 | 0 | 0 | 5 | 73 | 22 | 0 | 0 | 0 | 316 |
| 7 | 0 | 0 | 0 | 0 | 0 | 1 | 53 | 45 | 1 | 0 | 0 | 314 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 69 | 4 | 0 | 0 | 313 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 69 | 19 | 0 | 0 | 313 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 47 | 47 | 0 | 0 | 314 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 32 | 61 | 4 | 0 | 317 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 | 64 | 13 | 0 | 316 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 15 | 61 | 21 | 0 | 317 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 12 | 59 | 26 | 0 | 316 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 56 | 29 | 0 | 316 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 57 | 26 | 0 | 317 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 64 | 17 | 0 | 314 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 26 | 64 | 7 | 0 | 309 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 43 | 51 | 0 | 0 | 310 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 56 | 34 | 0 | 0 | 309 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 61 | 26 | 0 | 0 | 309 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 63 | 19 | 0 | 0 | 310 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 67 | 13 | 0 | 0 | 311 |
| BY MONTH | 0 | 0 | 0 | 0 | 0 | 1 | 23 | 40 | 30 | 6 | 0 | 7539 |

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-30 SEPTEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<14 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 1 | 7 | 39 | 49 | 5 | 0 | 0 | 326 |
| 1 | 0 | 0 | 0 | 0 | 0 | 8 | 50 | 40 | 2 | 0 | 0 | 324 |
| 2 | 0 | 0 | 0 | 0 | 0 | 10 | 53 | 35 | 1 | 0 | 0 | 324 |
| 3 | 0 | 0 | 0 | 0 | 1 | 12 | 60 | 26 | 1 | 0 | 0 | 324 |
| 4 | 0 | 0 | 0 | 0 | 2 | 15 | 63 | 21 | 0 | 0 | 0 | 324 |
| 5 | 0 | 0 | 0 | 0 | 2 | 19 | 63 | 16 | 0 | 0 | 0 | 322 |
| 6 | 0 | 0 | 0 | 0 | 2 | 25 | 64 | 9 | 0 | 0 | 0 | 323 |
| 7 | 0 | 0 | 0 | 0 | 1 | 15 | 62 | 22 | 0 | 0 | 0 | 323 |
| 8 | 0 | 0 | 0 | 0 | 1 | 6 | 43 | 48 | 3 | 0 | 0 | 324 |
| 9 | 0 | 0 | 0 | 0 | 1 | 3 | 28 | 59 | 10 | 0 | 0 | 324 |
| 10 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 61 | 23 | 0 | 0 | 324 |
| 11 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 47 | 40 | 1 | 0 | 324 |
| 12 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 38 | 48 | 2 | 0 | 321 |
| 13 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 26 | 57 | 7 | 0 | 324 |
| 14 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 21 | 61 | 11 | 0 | 324 |
| 15 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 19 | 62 | 12 | 0 | 322 |
| 16 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 20 | 62 | 14 | 0 | 323 |
| 17 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 23 | 64 | 14 | 0 | 316 |
| 18 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 42 | 48 | 6 | 0 | 312 |
| 19 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 55 | 29 | 0 | 0 | 313 |
| 20 | 0 | 0 | 0 | 0 | 0 | 3 | 20 | 60 | 18 | 0 | 0 | 312 |
| 21 | 0 | 0 | 0 | 0 | 0 | 4 | 23 | 61 | 12 | 0 | 0 | 311 |
| 22 | 0 | 0 | 0 | 0 | 0 | 4 | 28 | 59 | 8 | 0 | 0 | 312 |
| 23 | 0 | 0 | 0 | 0 | 0 | 7 | 34 | 53 | 6 | 0 | 0 | 312 |
| BY MONTH | 0 | 0 | 0 | 0 | 1 | 6 | 29 | 38 | 23 | 3 | 0 | 7688 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

1-15 OCTOBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 1 | 19 | 52 | 27 | 0 | 0 | 0 | 322 |
| 1 | 0 | 0 | 0 | 0 | 2 | 25 | 52 | 21 | 0 | 0 | 0 | 323 |
| 2 | 0 | 0 | 0 | 0 | 2 | 30 | 51 | 17 | 0 | 0 | 0 | 324 |
| 3 | 0 | 0 | 0 | 0 | 3 | 36 | 49 | 12 | 0 | 0 | 0 | 324 |
| 4 | 0 | 0 | 0 | 0 | 3 | 42 | 46 | 8 | 0 | 0 | 0 | 324 |
| 5 | 0 | 0 | 0 | 0 | 5 | 46 | 43 | 6 | 0 | 0 | 0 | 322 |
| 6 | 0 | 0 | 0 | 0 | 8 | 52 | 37 | 4 | 0 | 0 | 0 | 326 |
| 7 | 0 | 0 | 0 | 0 | 5 | 41 | 46 | 8 | 0 | 0 | 0 | 326 |
| 8 | 0 | 0 | 0 | 0 | 2 | 18 | 63 | 17 | 0 | 0 | 0 | 326 |
| 9 | 0 | 0 | 0 | 0 | 0 | 9 | 55 | 35 | 1 | 0 | 0 | 326 |
| 10 | 0 | 0 | 0 | 0 | 0 | 5 | 35 | 53 | 5 | 0 | 0 | 326 |
| 11 | 0 | 0 | 0 | 0 | 0 | 3 | 24 | 61 | 13 | 0 | 0 | 327 |
| 12 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 51 | 31 | 0 | 0 | 323 |
| 13 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 46 | 43 | 0 | 0 | 323 |
| 14 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 42 | 48 | 1 | 0 | 322 |
| 15 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 40 | 51 | 1 | 0 | 323 |
| 16 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 41 | 50 | 0 | 0 | 323 |
| 17 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 48 | 38 | 0 | 0 | 315 |
| 18 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | 63 | 11 | 0 | 0 | 312 |
| 19 | 0 | 0 | 0 | 0 | 0 | 4 | 37 | 54 | 4 | 0 | 0 | 312 |
| 20 | 0 | 0 | 0 | 0 | 0 | 6 | 47 | 46 | 1 | 0 | 0 | 312 |
| 21 | 0 | 0 | 0 | 0 | 1 | 7 | 55 | 37 | 0 | 0 | 0 | 313 |
| 22 | 0 | 0 | 0 | 0 | 1 | 12 | 54 | 33 | 1 | 0 | 0 | 311 |
| 23 | 0 | 0 | 0 | 0 | 1 | 17 | 53 | 28 | 0 | 0 | 0 | 313 |
| BY MONTH | 0 | 0 | 0 | 0 | 1 | 16 | 37 | 33 | 12 | 0 | 0 | 7698 |

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 OCTOBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 0 | 0 | 11 | 54 | 29 | 5 | 0 | 0 | 0 | 350 |
| 1 | 0 | 0 | 0 | 0 | 13 | 56 | 26 | 4 | 0 | 0 | 0 | 349 |
| 2 | 0 | 0 | 0 | 1 | 17 | 57 | 23 | 3 | 0 | 0 | 0 | 349 |
| 3 | 0 | 0 | 0 | 1 | 19 | 58 | 21 | 1 | 0 | 0 | 0 | 349 |
| 4 | 0 | 0 | 0 | 1 | 24 | 57 | 17 | 1 | 0 | 0 | 0 | 349 |
| 5 | 0 | 0 | 0 | 1 | 31 | 51 | 16 | 1 | 0 | 0 | 0 | 350 |
| 6 | 0 | 0 | 0 | 2 | 35 | 51 | 11 | 1 | 0 | 0 | 0 | 350 |
| 7 | 0 | 0 | 0 | 1 | 28 | 58 | 12 | 1 | 0 | 0 | 0 | 348 |
| 8 | 0 | 0 | 0 | 0 | 13 | 56 | 29 | 2 | 0 | 0 | 0 | 349 |
| 9 | 0 | 0 | 0 | 0 | 5 | 38 | 51 | 6 | 0 | 0 | 0 | 349 |
| 10 | 0 | 0 | 0 | 0 | 3 | 23 | 58 | 16 | 0 | 0 | 0 | 347 |
| 11 | 0 | 0 | 0 | 0 | 2 | 16 | 50 | 31 | 1 | 0 | 0 | 349 |
| 12 | 0 | 0 | 0 | 0 | 1 | 11 | 38 | 48 | 2 | 0 | 0 | 350 |
| 13 | 0 | 0 | 0 | 0 | 1 | 7 | 29 | 55 | 7 | 0 | 0 | 348 |
| 14 | 0 | 0 | 0 | 0 | 1 | 7 | 24 | 55 | 12 | 0 | 0 | 348 |
| 15 | 0 | 0 | 0 | 0 | 2 | 6 | 26 | 55 | 11 | 0 | 0 | 350 |
| 16 | 0 | 0 | 0 | 0 | 1 | 8 | 26 | 55 | 10 | 0 | 0 | 347 |
| 17 | 0 | 0 | 0 | 0 | 2 | 11 | 33 | 53 | 1 | 0 | 0 | 336 |
| 18 | 0 | 0 | 0 | 0 | 3 | 18 | 52 | 27 | 0 | 0 | 0 | 335 |
| 19 | 0 | 0 | 0 | 0 | 5 | 24 | 53 | 18 | 0 | 0 | 0 | 336 |
| 20 | 0 | 0 | 0 | 0 | 5 | 30 | 52 | 13 | 0 | 0 | 0 | 335 |
| 21 | 0 | 0 | 0 | 0 | 6 | 35 | 50 | 9 | 0 | 0 | 0 | 336 |
| 22 | 0 | 0 | 0 | 0 | 8 | 40 | 44 | 8 | 0 | 0 | 0 | 334 |
| 23 | 0 | 0 | 0 | 0 | 9 | 48 | 37 | 6 | 0 | 0 | 0 | 334 |
| BY MONTH | 0 | 0 | 0 | 0 | 10 | 34 | 33 | 20 | 2 | 0 | 0 | 8279 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 NOVEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | $\geq -10 < 9$ | $10 \leq 19$ | $20 \leq 29$ | $30 \leq 39$ | $40 \leq 49$ | $50 \leq 59$ | $60 \leq 69$ | $70 \leq 79$ | $80 \leq 89$ | $90 \leq 99$ | ≥ 100 | OBSERVATIONS |
|----------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|
| 0 | 0 | 0 | 0 | 5 | 31 | 45 | 17 | 2 | 0 | 0 | 0 | 320 |
| 1 | 0 | 0 | 0 | 6 | 34 | 43 | 17 | 1 | 0 | 0 | 0 | 321 |
| 2 | 0 | 0 | 0 | 7 | 37 | 40 | 16 | 0 | 0 | 0 | 0 | 321 |
| 3 | 0 | 0 | 0 | 11 | 41 | 35 | 13 | 0 | 0 | 0 | 0 | 320 |
| 4 | 0 | 0 | 1 | 12 | 47 | 30 | 10 | 0 | 0 | 0 | 0 | 321 |
| 5 | 0 | 0 | 1 | 13 | 51 | 25 | 10 | 0 | 0 | 0 | 0 | 323 |
| 6 | 0 | 0 | 2 | 15 | 52 | 23 | 8 | 0 | 0 | 0 | 0 | 319 |
| 7 | 0 | 0 | 1 | 14 | 50 | 28 | 7 | 0 | 0 | 0 | 0 | 319 |
| 8 | 0 | 0 | 0 | 4 | 37 | 45 | 13 | 0 | 0 | 0 | 0 | 318 |
| 9 | 0 | 0 | 0 | 3 | 23 | 53 | 21 | 0 | 0 | 0 | 0 | 319 |
| 10 | 0 | 0 | 0 | 1 | 14 | 44 | 38 | 2 | 0 | 0 | 0 | 319 |
| 11 | 0 | 0 | 0 | 2 | 9 | 32 | 51 | 6 | 0 | 0 | 0 | 319 |
| 12 | 0 | 0 | 0 | 1 | 4 | 27 | 55 | 13 | 0 | 0 | 0 | 318 |
| 13 | 0 | 0 | 0 | 1 | 4 | 19 | 51 | 25 | 0 | 0 | 0 | 318 |
| 14 | 0 | 0 | 0 | 1 | 3 | 17 | 44 | 34 | 0 | 0 | 0 | 317 |
| 15 | 0 | 0 | 0 | 1 | 3 | 18 | 40 | 37 | 1 | 0 | 0 | 318 |
| 16 | 0 | 0 | 0 | 1 | 3 | 18 | 47 | 31 | 0 | 0 | 0 | 318 |
| 17 | 0 | 0 | 0 | 1 | 4 | 28 | 56 | 10 | 0 | 0 | 0 | 316 |
| 18 | 0 | 0 | 0 | 1 | 9 | 42 | 43 | 5 | 0 | 0 | 0 | 308 |
| 19 | 0 | 0 | 0 | 2 | 13 | 45 | 36 | 4 | 0 | 0 | 0 | 308 |
| 20 | 0 | 0 | 0 | 2 | 20 | 45 | 30 | 2 | 0 | 0 | 0 | 308 |
| 21 | 0 | 0 | 0 | 3 | 22 | 48 | 25 | 2 | 0 | 0 | 0 | 308 |
| 22 | 0 | 0 | 0 | 3 | 26 | 48 | 21 | 2 | 0 | 0 | 0 | 307 |
| 23 | 0 | 0 | 0 | 4 | 27 | 45 | 22 | 1 | 0 | 0 | 0 | 310 |
| BY MONTH | 0 | 0 | 0 | 5 | 24 | 35 | 29 | 7 | 0 | 0 | 0 | 7593 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-30 NOVEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >=10<9 | >10<14 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 4 | 17 | 45 | 24 | 10 | 0 | 0 | 0 | 0 | 315 |
| 1 | 0 | 0 | 5 | 20 | 45 | 22 | 9 | 0 | 0 | 0 | 0 | 316 |
| 2 | 0 | 0 | 6 | 24 | 41 | 21 | 9 | 0 | 0 | 0 | 0 | 316 |
| 3 | 0 | 0 | 9 | 25 | 41 | 18 | 7 | 0 | 0 | 0 | 0 | 316 |
| 4 | 0 | 0 | 8 | 28 | 41 | 18 | 5 | 0 | 0 | 0 | 0 | 316 |
| 5 | 0 | 0 | 11 | 28 | 39 | 18 | 4 | 0 | 0 | 0 | 0 | 317 |
| 6 | 0 | 0 | 15 | 29 | 36 | 17 | 3 | 0 | 0 | 0 | 0 | 317 |
| 7 | 0 | 0 | 14 | 30 | 37 | 16 | 3 | 0 | 0 | 0 | 0 | 317 |
| 8 | 0 | 0 | 5 | 24 | 42 | 25 | 4 | 0 | 0 | 0 | 0 | 316 |
| 9 | 0 | 0 | 1 | 15 | 43 | 35 | 6 | 0 | 0 | 0 | 0 | 317 |
| 10 | 0 | 0 | 1 | 7 | 38 | 41 | 13 | 1 | 0 | 0 | 0 | 317 |
| 11 | 0 | 0 | 0 | 4 | 30 | 42 | 21 | 2 | 0 | 0 | 0 | 318 |
| 12 | 0 | 0 | 0 | 3 | 21 | 41 | 31 | 4 | 0 | 0 | 0 | 316 |
| 13 | 0 | 0 | 0 | 2 | 16 | 38 | 37 | 7 | 0 | 0 | 0 | 316 |
| 14 | 0 | 0 | 0 | 2 | 13 | 34 | 41 | 10 | 0 | 0 | 0 | 316 |
| 15 | 0 | 0 | 0 | 2 | 13 | 33 | 41 | 11 | 0 | 0 | 0 | 316 |
| 16 | 0 | 0 | 0 | 2 | 14 | 35 | 40 | 9 | 0 | 0 | 0 | 315 |
| 17 | 0 | 0 | 0 | 2 | 22 | 45 | 28 | 2 | 0 | 0 | 0 | 314 |
| 18 | 0 | 0 | 0 | 5 | 31 | 44 | 19 | 1 | 0 | 0 | 0 | 307 |
| 19 | 0 | 0 | 1 | 6 | 38 | 39 | 16 | 1 | 0 | 0 | 0 | 307 |
| 20 | 0 | 0 | 0 | 10 | 41 | 35 | 14 | 0 | 0 | 0 | 0 | 306 |
| 21 | 0 | 0 | 1 | 13 | 40 | 35 | 12 | 0 | 0 | 0 | 0 | 306 |
| 22 | 0 | 0 | 2 | 15 | 42 | 29 | 12 | 0 | 0 | 0 | 0 | 306 |
| 23 | 0 | 0 | 3 | 16 | 43 | 27 | 10 | 0 | 0 | 0 | 0 | 308 |
| BY MONTH | 0 | 0 | 4 | 14 | 34 | 30 | 17 | 2 | 0 | 0 | 0 | 7531 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO
PERIOD OF RECORD 1951 - 1973

1-15 DECEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 7 | 30 | 41 | 17 | 4 | 0 | 0 | 0 | 0 | 321 |
| 1 | 0 | 0 | 9 | 33 | 37 | 17 | 5 | 0 | 0 | 0 | 0 | 322 |
| 2 | 0 | 0 | 11 | 33 | 38 | 15 | 4 | 0 | 0 | 0 | 0 | 323 |
| 3 | 0 | 0 | 14 | 35 | 33 | 15 | 3 | 0 | 0 | 0 | 0 | 323 |
| 4 | 0 | 0 | 17 | 34 | 33 | 14 | 2 | 0 | 0 | 0 | 0 | 323 |
| 5 | 0 | 0 | 20 | 35 | 31 | 12 | 3 | 0 | 0 | 0 | 0 | 323 |
| 6 | 0 | 0 | 25 | 33 | 29 | 11 | 2 | 0 | 0 | 0 | 0 | 323 |
| 7 | 0 | 0 | 27 | 37 | 24 | 11 | 2 | 0 | 0 | 0 | 0 | 322 |
| 8 | 0 | 0 | 14 | 34 | 35 | 13 | 3 | 0 | 0 | 0 | 0 | 323 |
| 9 | 0 | 0 | 6 | 23 | 49 | 18 | 4 | 0 | 0 | 0 | 0 | 323 |
| 10 | 0 | 0 | 2 | 17 | 48 | 25 | 7 | 1 | 0 | 0 | 0 | 322 |
| 11 | 0 | 0 | 2 | 11 | 39 | 36 | 12 | 0 | 0 | 0 | 0 | 320 |
| 12 | 0 | 0 | 2 | 6 | 32 | 43 | 16 | 1 | 0 | 0 | 0 | 320 |
| 13 | 0 | 0 | 1 | 5 | 26 | 43 | 23 | 2 | 0 | 0 | 0 | 320 |
| 14 | 0 | 0 | 1 | 4 | 22 | 41 | 28 | 4 | 0 | 0 | 0 | 321 |
| 15 | 0 | 0 | 1 | 5 | 21 | 37 | 33 | 3 | 0 | 0 | 0 | 321 |
| 16 | 0 | 0 | 1 | 4 | 25 | 42 | 27 | 2 | 0 | 0 | 0 | 322 |
| 17 | 0 | 0 | 2 | 6 | 35 | 42 | 15 | 1 | 0 | 0 | 0 | 317 |
| 18 | 0 | 0 | 2 | 12 | 45 | 31 | 11 | 0 | 0 | 0 | 0 | 314 |
| 19 | 0 | 0 | 3 | 19 | 43 | 27 | 9 | 0 | 0 | 0 | 0 | 314 |
| 20 | 0 | 0 | 3 | 21 | 44 | 23 | 9 | 0 | 0 | 0 | 0 | 313 |
| 21 | 0 | 0 | 5 | 23 | 46 | 20 | 7 | 0 | 0 | 0 | 0 | 311 |
| 22 | 0 | 0 | 5 | 27 | 42 | 19 | 6 | 0 | 0 | 0 | 0 | 314 |
| 23 | 0 | 0 | 7 | 28 | 42 | 16 | 6 | 0 | 0 | 0 | 0 | 313 |
| BY MONTH | 0 | 0 | 8 | 21 | 36 | 24 | 10 | 1 | 0 | 0 | 0 | 7668 |

TABLE V (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF TEMPERATURES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

16-31 DECEMBER

DRY BULB TEMPERATURE (DEG F)

| HOUR | >-10<9 | >10<19 | >20<32 | >33<39 | >40<49 | >50<59 | >60<69 | >70<79 | >80<89 | >90<99 | >100 | OBSERVATIONS |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------|
| 0 | 0 | 0 | 16 | 29 | 35 | 16 | 4 | 0 | 0 | 0 | 0 | 313 |
| 1 | 0 | 0 | 17 | 33 | 35 | 12 | 4 | 0 | 0 | 0 | 0 | 315 |
| 2 | 0 | 0 | 19 | 32 | 34 | 11 | 3 | 0 | 0 | 0 | 0 | 315 |
| 3 | 0 | 0 | 23 | 34 | 29 | 12 | 3 | 0 | 0 | 0 | 0 | 315 |
| 4 | 0 | 0 | 24 | 37 | 25 | 12 | 2 | 0 | 0 | 0 | 0 | 315 |
| 5 | 0 | 0 | 28 | 35 | 22 | 11 | 2 | 0 | 0 | 0 | 0 | 316 |
| 6 | 0 | 0 | 33 | 31 | 22 | 11 | 2 | 0 | 0 | 0 | 0 | 315 |
| 7 | 0 | 1 | 35 | 30 | 22 | 11 | 1 | 0 | 0 | 0 | 0 | 317 |
| 8 | 0 | 0 | 23 | 36 | 29 | 10 | 1 | 0 | 0 | 0 | 0 | 327 |
| 9 | 0 | 0 | 14 | 26 | 44 | 14 | 2 | 0 | 0 | 0 | 0 | 325 |
| 10 | 0 | 0 | 8 | 18 | 49 | 22 | 3 | 1 | 0 | 0 | 0 | 326 |
| 11 | 0 | 0 | 4 | 13 | 45 | 31 | 7 | 0 | 0 | 0 | 0 | 330 |
| 12 | 0 | 0 | 2 | 9 | 36 | 40 | 12 | 0 | 0 | 0 | 0 | 325 |
| 13 | 0 | 0 | 2 | 9 | 25 | 48 | 14 | 2 | 0 | 0 | 0 | 326 |
| 14 | 0 | 0 | 1 | 6 | 24 | 46 | 21 | 2 | 0 | 0 | 0 | 323 |
| 15 | 0 | 0 | 1 | 5 | 22 | 46 | 25 | 1 | 0 | 0 | 0 | 325 |
| 16 | 0 | 0 | 2 | 5 | 25 | 45 | 23 | 1 | 0 | 0 | 0 | 323 |
| 17 | 0 | 0 | 2 | 10 | 31 | 44 | 13 | 0 | 0 | 0 | 0 | 305 |
| 18 | 0 | 0 | 3 | 16 | 44 | 28 | 10 | 0 | 0 | 0 | 0 | 302 |
| 19 | 0 | 0 | 5 | 18 | 46 | 23 | 8 | 0 | 0 | 0 | 0 | 302 |
| 20 | 0 | 0 | 7 | 20 | 46 | 22 | 6 | 0 | 0 | 0 | 0 | 301 |
| 21 | 0 | 0 | 6 | 23 | 42 | 21 | 7 | 0 | 0 | 0 | 0 | 301 |
| 22 | 0 | 0 | 10 | 24 | 41 | 20 | 5 | 0 | 0 | 0 | 0 | 301 |
| 23 | 0 | 0 | 12 | 26 | 38 | 20 | 3 | 0 | 0 | 0 | 0 | 305 |
| BY MONTH | 0 | 0 | 12 | 22 | 34 | 24 | 8 | 0 | 0 | 0 | 0 | 7568 |

SECTION II

DENSITY AND PRESSURE

PAGE

| | |
|---|----|
| Table VI. Mean and Extreme Density and Station Pressure by Month and by Hour ----- | 62 |
|---|----|

TABLE VI

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY HOUR AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JANUARY

| DENSITY (G/CC.M) | | | | STATION PRESSURE (IN OF HG) | | | | | |
|------------------|--------|--------|--------|-----------------------------|--------|--------|--------|--------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL | HIGH | MEAN | LOW | TOTAL | HOUR |
| | | | | OBSERVATIONS | | | | OBSERVATIONS | |
| 0 | 1159.5 | 1087.2 | 1035.4 | 563 | 26.170 | 25.767 | 25.240 | 563 | 0 |
| 1 | 1164.0 | 1088.7 | 1034.7 | 567 | 26.160 | 25.764 | 25.260 | 567 | 1 |
| 2 | 1219.2 | 1091.6 | 1026.8 | 597 | 26.180 | 25.772 | 25.260 | 657 | 2 |
| 3 | 1168.0 | 1093.1 | 1031.9 | 567 | 26.150 | 25.766 | 25.280 | 567 | 3 |
| 4 | 1177.4 | 1094.7 | 1027.1 | 567 | 26.140 | 25.763 | 25.280 | 567 | 4 |
| 5 | 1215.1 | 1096.6 | 1029.8 | 597 | 26.180 | 25.767 | 25.210 | 657 | 5 |
| 6 | 1169.0 | 1097.9 | 1027.4 | 567 | 26.150 | 25.767 | 25.260 | 567 | 6 |
| 7 | 1172.0 | 1100.0 | 1029.2 | 569 | 26.170 | 25.779 | 25.290 | 569 | 7 |
| 8 | 1217.4 | 1096.7 | 1028.9 | 597 | 26.230 | 25.797 | 25.240 | 660 | 8 |
| 9 | 1162.5 | 1089.6 | 1023.4 | 566 | 26.200 | 25.803 | 25.380 | 567 | 9 |
| 10 | 1158.1 | 1083.8 | 1026.3 | 566 | 26.220 | 25.813 | 25.380 | 567 | 10 |
| 11 | 1186.5 | 1078.2 | 1021.2 | 598 | 26.240 | 25.813 | 25.290 | 660 | 11 |
| 12 | 1150.5 | 1071.2 | 1019.8 | 568 | 26.200 | 25.779 | 25.290 | 568 | 12 |
| 13 | 1144.2 | 1065.5 | 1017.8 | 568 | 26.180 | 25.749 | 25.230 | 568 | 13 |
| 14 | 1174.3 | 1062.3 | 1016.0 | 600 | 26.160 | 25.737 | 25.190 | 662 | 14 |
| 15 | 1146.0 | 1060.0 | 1015.6 | 570 | 26.160 | 25.724 | 25.170 | 570 | 15 |
| 16 | 1144.8 | 1060.9 | 1015.2 | 569 | 26.150 | 25.723 | 25.170 | 569 | 16 |
| 17 | 1176.8 | 1067.0 | 1019.4 | 583 | 26.160 | 25.735 | 25.160 | 650 | 17 |
| 18 | 1150.9 | 1073.0 | 1019.2 | 547 | 26.140 | 25.734 | 25.170 | 547 | 18 |
| 19 | 1156.3 | 1077.1 | 1021.6 | 545 | 26.140 | 25.744 | 25.210 | 545 | 19 |
| 20 | 1194.1 | 1080.1 | 1026.0 | 577 | 26.200 | 25.757 | 25.230 | 640 | 20 |
| 21 | 1158.2 | 1081.9 | 1026.7 | 546 | 26.160 | 25.758 | 25.140 | 546 | 21 |
| 22 | 1161.5 | 1084.2 | 1028.5 | 547 | 26.170 | 25.764 | 25.250 | 547 | 22 |
| 23 | 1207.7 | 1086.2 | 1032.3 | 578 | 26.210 | 25.774 | 25.250 | 641 | 23 |
| BY MONTH | 1219.2 | 1082.0 | 1015.2 | 13719 | 26.240 | 25.765 | 25.380 | 14221 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF FEBRUARY

| DENSITY (G/CU.M) | | | | STATION PRESSURE (IN OF HG) | | | | | |
|------------------|--------|--------|--------|-----------------------------|--------|--------|--------|-----------------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HOUR |
| 0 | 1177.8 | 1080.6 | 1027.3 | 517 | 26.150 | 25.736 | 25.270 | 517 | 0 |
| 1 | 1180.4 | 1082.5 | 1026.3 | 518 | 26.150 | 25.735 | 25.270 | 518 | 1 |
| 2 | 1178.3 | 1083.3 | 1028.2 | 545 | 26.140 | 25.728 | 25.260 | 603 | 2 |
| 3 | 1167.7 | 1066.1 | 1026.8 | 517 | 26.120 | 25.731 | 25.250 | 517 | 3 |
| 4 | 1173.3 | 1088.1 | 1028.5 | 518 | 26.110 | 25.730 | 25.240 | 518 | 4 |
| 5 | 1177.8 | 1089.0 | 1031.9 | 566 | 26.110 | 25.726 | 25.250 | 605 | 5 |
| 6 | 1177.5 | 1091.8 | 1034.9 | 517 | 26.120 | 25.741 | 25.290 | 517 | 6 |
| 7 | 1174.7 | 1093.5 | 1037.3 | 518 | 26.130 | 25.752 | 25.260 | 518 | 7 |
| 8 | 1170.5 | 1087.7 | 1033.9 | 545 | 26.160 | 25.760 | 25.210 | 603 | 8 |
| 9 | 1163.6 | 1082.5 | 1030.5 | 518 | 26.170 | 25.779 | 25.290 | 518 | 9 |
| 10 | 1169.0 | 1076.7 | 1025.0 | 518 | 26.170 | 25.784 | 25.230 | 518 | 10 |
| 11 | 1158.6 | 1069.3 | 1021.2 | 564 | 26.160 | 25.771 | 25.220 | 604 | 11 |
| 12 | 1157.3 | 1064.1 | 1018.5 | 518 | 26.160 | 25.756 | 25.270 | 518 | 12 |
| 13 | 1152.9 | 1058.9 | 1013.7 | 517 | 26.130 | 25.726 | 25.270 | 517 | 13 |
| 14 | 1154.5 | 1054.6 | 1009.3 | 546 | 26.120 | 25.699 | 25.180 | 603 | 14 |
| 15 | 1145.1 | 1053.1 | 1008.7 | 518 | 26.100 | 25.691 | 25.240 | 518 | 15 |
| 16 | 1145.6 | 1053.3 | 1004.2 | 518 | 26.100 | 25.686 | 25.280 | 518 | 16 |
| 17 | 1149.4 | 1055.6 | 1014.9 | 550 | 26.090 | 25.680 | 25.280 | 593 | 17 |
| 18 | 1154.1 | 1063.0 | 1019.3 | 500 | 26.090 | 25.691 | 25.310 | 500 | 18 |
| 19 | 1155.1 | 1068.0 | 1019.8 | 499 | 26.110 | 25.701 | 25.300 | 499 | 19 |
| 20 | 1155.4 | 1070.6 | 1020.9 | 528 | 26.130 | 25.705 | 25.300 | 585 | 20 |
| 21 | 1156.3 | 1074.3 | 1022.2 | 500 | 26.140 | 25.720 | 25.280 | 500 | 21 |
| 22 | 1164.7 | 1076.5 | 1024.2 | 500 | 26.150 | 25.726 | 25.280 | 500 | 22 |
| 23 | 1172.3 | 1077.6 | 1024.7 | 545 | 26.150 | 25.727 | 25.280 | 584 | 23 |
| BY MONTH | 1180.4 | 1074.2 | 1004.2 | 12600 | 26.170 | 25.728 | 25.180 | 12991 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MARCH

| DENSITY (G/CU.M) | | | | STATION PRESSURE (IN OF HG) | | | | | |
|------------------|--------|--------|--------|-----------------------------|--------|--------|--------|--------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL | HIGH | MEAN | LOW | TOTAL | HOUR |
| | | | | OBSERVATIONS | | | | OBSERVATIONS | |
| 0 | 1142.0 | 1064.1 | 1014.5 | 565 | 26.110 | 25.677 | 25.250 | 565 | 0 |
| 1 | 1141.9 | 1066.3 | 1017.1 | 566 | 26.140 | 25.678 | 25.250 | 566 | 1 |
| 2 | 1139.2 | 1069.1 | 1019.1 | 596 | 26.140 | 25.678 | 25.240 | 664 | 2 |
| 3 | 1138.3 | 1070.4 | 1018.7 | 566 | 26.140 | 25.672 | 25.220 | 566 | 3 |
| 4 | 1148.5 | 1072.7 | 1023.0 | 566 | 26.140 | 25.672 | 25.190 | 566 | 4 |
| 5 | 1148.9 | 1075.3 | 1025.0 | 597 | 26.120 | 25.681 | 25.200 | 665 | 5 |
| 6 | 1152.2 | 1077.6 | 1025.1 | 564 | 26.140 | 25.691 | 25.200 | 564 | 6 |
| 7 | 1150.7 | 1076.6 | 1021.1 | 565 | 26.140 | 25.704 | 25.220 | 565 | 7 |
| 8 | 1139.6 | 1071.1 | 1018.2 | 595 | 26.170 | 25.721 | 25.250 | 663 | 8 |
| 9 | 1132.3 | 1065.2 | 1015.9 | 565 | 26.180 | 25.726 | 25.260 | 565 | 9 |
| 10 | 1125.5 | 1059.1 | 1014.8 | 565 | 26.180 | 25.728 | 25.300 | 565 | 10 |
| 11 | 1118.5 | 1053.3 | 1011.0 | 594 | 26.170 | 25.717 | 25.300 | 662 | 11 |
| 12 | 1118.9 | 1047.8 | 1005.9 | 566 | 26.150 | 25.698 | 25.260 | 566 | 12 |
| 13 | 1115.2 | 1043.2 | 1002.8 | 563 | 26.110 | 25.672 | 25.240 | 563 | 13 |
| 14 | 1112.5 | 1039.9 | 998.8 | 595 | 26.070 | 25.649 | 25.200 | 662 | 14 |
| 15 | 1112.3 | 1037.5 | 996.7 | 564 | 26.020 | 25.634 | 25.210 | 564 | 15 |
| 16 | 1113.5 | 1037.4 | 998.1 | 565 | 26.000 | 25.624 | 25.200 | 565 | 16 |
| 17 | 1115.8 | 1039.7 | 999.1 | 575 | 26.010 | 25.624 | 25.180 | 646 | 17 |
| 18 | 1121.1 | 1043.5 | 1002.7 | 537 | 25.990 | 25.625 | 25.210 | 537 | 18 |
| 19 | 1124.3 | 1049.0 | 1007.4 | 539 | 26.000 | 25.637 | 25.230 | 539 | 19 |
| 20 | 1130.1 | 1053.4 | 1009.8 | 571 | 26.030 | 25.651 | 25.260 | 638 | 20 |
| 21 | 1140.3 | 1056.2 | 1013.4 | 541 | 26.060 | 25.663 | 25.280 | 541 | 21 |
| 22 | 1145.3 | 1059.0 | 1011.9 | 539 | 26.070 | 25.672 | 25.280 | 539 | 22 |
| 23 | 1144.5 | 1061.9 | 1010.0 | 570 | 26.080 | 25.679 | 25.270 | 637 | 23 |
| BY MONTH | 1152.2 | 1058.0 | 996.7 | 13629 | 26.180 | 25.674 | 25.180 | 14173 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF APRIL

| HOUR | DENSITY (G/CC.M) | | | | STATION PRESSURE (IN OF HG) | | | | TOTAL OBSERVATIONS | TOTAL OBSERVATIONS | HOUR |
|-------------|------------------|--------|--------|--|-----------------------------|--------|--------|--|-----------------------|-----------------------|------|
| | HIGH | MEAN | LOW | | HIGH | MEAN | LOW | | | | |
| 0 | 1101.5 | 1045.2 | 1004.2 | | 26.050 | 25.663 | 25.330 | | 573 | 573 | 0 |
| 1 | 1102.0 | 1047.8 | 1007.7 | | 26.070 | 25.661 | 25.330 | | 575 | 575 | 1 |
| 2 | 1107.6 | 1049.7 | 1009.1 | | 26.080 | 25.659 | 25.300 | | 598 | 640 | 2 |
| 3 | 1110.0 | 1052.4 | 1012.8 | | 26.100 | 25.658 | 25.290 | | 574 | 574 | 3 |
| 4 | 1116.4 | 1054.9 | 1010.4 | | 26.110 | 25.661 | 25.310 | | 575 | 575 | 4 |
| 5 | 1116.9 | 1057.0 | 1010.1 | | 26.120 | 25.670 | 25.330 | | 597 | 639 | 5 |
| 6 | 1115.9 | 1058.7 | 1011.7 | | 26.140 | 25.682 | 25.350 | | 575 | 575 | 6 |
| 7 | 1110.2 | 1054.5 | 1004.5 | | 26.160 | 25.699 | 25.350 | | 574 | 574 | 7 |
| 8 | 1107.9 | 1048.9 | 1005.6 | | 26.160 | 25.710 | 25.370 | | 599 | 642 | 8 |
| 9 | 1098.6 | 1043.6 | 1004.2 | | 26.160 | 25.713 | 25.370 | | 574 | 574 | 9 |
| 10 | 1092.5 | 1038.0 | 1000.9 | | 26.160 | 25.713 | 25.360 | | 574 | 574 | 10 |
| 11 | 1090.3 | 1032.5 | 996.4 | | 26.130 | 25.699 | 25.320 | | 597 | 640 | 11 |
| 12 | 1084.6 | 1027.9 | 992.6 | | 26.100 | 25.678 | 25.290 | | 573 | 573 | 12 |
| 13 | 1084.6 | 1023.6 | 986.9 | | 26.060 | 25.656 | 25.260 | | 575 | 575 | 13 |
| 14 | 1074.1 | 1020.4 | 984.3 | | 26.030 | 25.637 | 25.220 | | 598 | 641 | 14 |
| 15 | 1074.8 | 1018.7 | 982.7 | | 26.000 | 25.615 | 25.190 | | 573 | 573 | 15 |
| 16 | 1076.7 | 1018.3 | 982.3 | | 25.980 | 25.603 | 25.190 | | 574 | 574 | 16 |
| 17 | 1076.5 | 1019.2 | 982.3 | | 25.970 | 25.604 | 25.250 | | 561 | 607 | 17 |
| 18 | 1083.7 | 1023.0 | 987.7 | | 25.960 | 25.603 | 25.270 | | 532 | 532 | 18 |
| 19 | 1083.7 | 1028.3 | 987.7 | | 25.960 | 25.612 | 25.270 | | 530 | 530 | 19 |
| 20 | 1091.5 | 1032.6 | 994.2 | | 25.970 | 25.630 | 25.320 | | 557 | 599 | 20 |
| 21 | 1095.2 | 1036.5 | 996.5 | | 25.990 | 25.646 | 25.330 | | 531 | 531 | 21 |
| 22 | 1097.1 | 1039.8 | 1001.7 | | 25.990 | 25.655 | 25.340 | | 529 | 529 | 22 |
| 23 | 1099.2 | 1042.1 | 1003.6 | | 26.020 | 25.661 | 25.330 | | 556 | 598 | 23 |
| BY MONTH | 1116.9 | 1038.2 | 982.3 | | 26.160 | 25.658 | 25.190 | | 13674 | 14017 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MAY

| DENSITY (G/CU.M) | | | | STATION PRESSURE (IN OF HG) | | | | | |
|------------------|--------|--------|--------|-----------------------------|--------|--------|--------|--------------|------|
| HOUR | HIGH | MEAN | LOW | TOTAL | HIGH | MEAN | LOW | TOTAL | HOUR |
| | | | | OBSERVATIONS | | | | OBSERVATIONS | |
| 0 | 1086.9 | 1030.2 | 991.7 | 579 | 26.100 | 25.681 | 25.380 | 579 | 0 |
| 1 | 1095.6 | 1032.9 | 993.0 | 579 | 26.100 | 25.680 | 25.380 | 579 | 1 |
| 2 | 1093.7 | 1035.1 | 991.0 | 611 | 26.100 | 25.678 | 25.380 | 653 | 2 |
| 3 | 1098.6 | 1038.0 | 998.0 | 580 | 26.090 | 25.681 | 25.390 | 580 | 3 |
| 4 | 1102.3 | 1040.3 | 998.6 | 593 | 26.090 | 25.684 | 25.390 | 593 | 4 |
| 5 | 1100.0 | 1042.7 | 1002.5 | 624 | 26.080 | 25.693 | 25.400 | 666 | 5 |
| 6 | 1098.6 | 1041.3 | 999.9 | 591 | 26.090 | 25.708 | 25.410 | 591 | 6 |
| 7 | 1090.6 | 1036.4 | 990.7 | 591 | 26.100 | 25.722 | 25.410 | 591 | 7 |
| 8 | 1084.4 | 1031.0 | 988.7 | 623 | 26.100 | 25.731 | 25.430 | 665 | 8 |
| 9 | 1078.3 | 1025.2 | 985.3 | 590 | 26.100 | 25.733 | 25.430 | 590 | 9 |
| 10 | 1079.0 | 1019.8 | 980.4 | 592 | 26.100 | 25.730 | 25.430 | 592 | 10 |
| 11 | 1076.7 | 1014.6 | 976.8 | 622 | 26.080 | 25.714 | 25.420 | 664 | 11 |
| 12 | 1076.3 | 1010.4 | 972.3 | 592 | 26.060 | 25.697 | 25.390 | 592 | 12 |
| 13 | 1073.8 | 1006.6 | 969.4 | 591 | 26.040 | 25.677 | 25.370 | 591 | 13 |
| 14 | 1072.2 | 1003.8 | 964.2 | 623 | 26.020 | 25.656 | 25.360 | 665 | 14 |
| 15 | 1076.6 | 1002.5 | 967.9 | 591 | 26.000 | 25.637 | 25.330 | 591 | 15 |
| 16 | 1072.3 | 1002.4 | 962.1 | 592 | 26.010 | 25.624 | 25.320 | 592 | 16 |
| 17 | 1076.7 | 1003.3 | 966.0 | 583 | 26.020 | 25.617 | 25.310 | 631 | 17 |
| 18 | 1075.8 | 1006.3 | 969.9 | 548 | 26.030 | 25.616 | 25.330 | 548 | 18 |
| 19 | 1077.8 | 1011.5 | 977.0 | 548 | 26.050 | 25.626 | 25.340 | 548 | 19 |
| 20 | 1080.8 | 1016.5 | 979.1 | 565 | 26.060 | 25.639 | 25.350 | 602 | 20 |
| 21 | 1086.0 | 1020.6 | 981.7 | 532 | 26.080 | 25.658 | 25.360 | 532 | 21 |
| 22 | 1090.3 | 1023.7 | 983.6 | 533 | 26.120 | 25.669 | 25.370 | 533 | 22 |
| 23 | 1088.7 | 1026.4 | 991.0 | 563 | 26.100 | 25.678 | 25.390 | 606 | 23 |
| BY MONTH | 1107.3 | 1021.8 | 962.1 | 14036 | 26.120 | 25.677 | 25.310 | 14360 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JUNE

| DENSITY (G/CU.M) | | | | STATION PRESSURE (IN OF HG) | | | | | |
|------------------|--------------------|--------|-------|-----------------------------|--------|--------------------|--------|-------|----|
| HOUR | TOTAL OBSERVATIONS | | | TOTAL OBSERVATIONS | HOUR | TOTAL OBSERVATIONS | | | |
| | HIGH | MEAN | LOW | | | HIGH | MEAN | LOW | |
| 0 | 1060.2 | 1012.2 | 981.1 | 516 | 25.980 | 25.678 | 25.380 | 516 | 0 |
| 1 | 1060.4 | 1015.0 | 976.6 | 537 | 25.980 | 25.677 | 25.370 | 537 | 1 |
| 2 | 1062.1 | 1017.4 | 980.9 | 565 | 25.980 | 25.679 | 25.370 | 609 | 2 |
| 3 | 1065.7 | 1020.3 | 982.8 | 537 | 25.990 | 25.679 | 25.390 | 537 | 3 |
| 4 | 1067.6 | 1023.2 | 985.1 | 570 | 25.990 | 25.686 | 25.410 | 570 | 4 |
| 5 | 1072.0 | 1025.5 | 989.4 | 598 | 26.020 | 25.699 | 25.420 | 642 | 5 |
| 6 | 1069.9 | 1022.9 | 987.7 | 566 | 26.020 | 25.710 | 25.430 | 566 | 6 |
| 7 | 1063.9 | 1017.7 | 984.2 | 567 | 26.050 | 25.723 | 25.440 | 567 | 7 |
| 8 | 1055.6 | 1013.3 | 979.4 | 596 | 26.060 | 25.734 | 25.460 | 640 | 8 |
| 9 | 1049.8 | 1008.0 | 974.1 | 567 | 26.060 | 25.733 | 25.470 | 567 | 9 |
| 10 | 1047.8 | 1003.1 | 970.3 | 566 | 26.070 | 25.730 | 25.460 | 566 | 10 |
| 11 | 1044.4 | 998.3 | 965.1 | 598 | 26.060 | 25.718 | 25.440 | 642 | 11 |
| 12 | 1044.3 | 993.9 | 962.4 | 569 | 26.030 | 25.701 | 25.440 | 569 | 12 |
| 13 | 1042.3 | 990.3 | 961.4 | 567 | 26.010 | 25.680 | 25.420 | 567 | 13 |
| 14 | 1035.4 | 987.8 | 958.0 | 595 | 25.990 | 25.663 | 25.400 | 639 | 14 |
| 15 | 1038.7 | 986.7 | 958.8 | 565 | 25.960 | 25.643 | 25.380 | 565 | 15 |
| 16 | 1041.4 | 986.4 | 956.7 | 568 | 25.950 | 25.630 | 25.380 | 568 | 16 |
| 17 | 1041.6 | 987.1 | 955.5 | 581 | 25.930 | 25.618 | 25.360 | 629 | 17 |
| 18 | 1041.1 | 990.4 | 961.9 | 527 | 25.930 | 25.617 | 25.340 | 527 | 18 |
| 19 | 1044.0 | 994.7 | 967.2 | 526 | 25.930 | 25.623 | 25.330 | 526 | 19 |
| 20 | 1043.5 | 999.6 | 971.8 | 527 | 25.940 | 25.635 | 25.330 | 572 | 20 |
| 21 | 1045.0 | 1003.7 | 973.4 | 497 | 25.960 | 25.651 | 25.320 | 497 | 21 |
| 22 | 1045.5 | 1006.7 | 975.0 | 496 | 25.980 | 25.665 | 25.310 | 496 | 22 |
| 23 | 1049.4 | 1009.6 | 977.4 | 528 | 25.990 | 25.678 | 25.370 | 573 | 23 |
| BY MONTH | 1072.0 | 1004.7 | 955.5 | 13329 | 26.070 | 25.678 | 25.310 | 13687 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JULY

| HOUR | DENSITY (G/CU.M) | | | | STATION PRESSURE (IN OF HG) | | | | TOTAL OBSERVATIONS | TOTAL OBSERVATIONS | HOUR |
|----------|------------------|--------|-------|-------|-----------------------------|--------|--------|-------|-----------------------|-----------------------|------|
| | HIGH | MEAN | LOW | | HIGH | MEAN | LOW | | | | |
| 0 | 1051.6 | 1011.0 | 966.0 | 534 | 26.020 | 25.760 | 25.540 | 535 | | | 0 |
| 1 | 1051.2 | 1013.3 | 979.7 | 557 | 25.960 | 25.760 | 25.540 | 559 | | | 1 |
| 2 | 1052.5 | 1015.6 | 985.8 | 588 | 25.980 | 25.761 | 25.540 | 654 | | | 2 |
| 3 | 1054.5 | 1018.2 | 984.5 | 557 | 26.000 | 25.759 | 25.550 | 559 | | | 3 |
| 4 | 1054.0 | 1020.3 | 984.3 | 568 | 26.000 | 25.762 | 25.550 | 570 | | | 4 |
| 5 | 1054.0 | 1022.6 | 992.0 | 599 | 26.000 | 25.774 | 25.550 | 664 | | | 5 |
| 6 | 1052.7 | 1021.4 | 991.1 | 566 | 25.980 | 25.784 | 25.560 | 567 | | | 6 |
| 7 | 1049.9 | 1016.3 | 986.9 | 566 | 25.980 | 25.796 | 25.580 | 568 | | | 7 |
| 8 | 1050.4 | 1012.0 | 985.7 | 597 | 25.990 | 25.806 | 25.590 | 662 | | | 8 |
| 9 | 1048.9 | 1006.5 | 976.0 | 568 | 25.990 | 25.805 | 25.590 | 568 | | | 9 |
| 10 | 1045.2 | 1001.6 | 973.4 | 568 | 26.000 | 25.804 | 25.580 | 568 | | | 10 |
| 11 | 1046.2 | 996.8 | 967.0 | 598 | 26.050 | 25.791 | 25.570 | 663 | | | 11 |
| 12 | 1048.9 | 992.4 | 961.4 | 569 | 26.000 | 25.774 | 25.550 | 570 | | | 12 |
| 13 | 1044.8 | 989.3 | 958.9 | 569 | 25.990 | 25.753 | 25.530 | 570 | | | 13 |
| 14 | 1041.4 | 987.2 | 957.4 | 598 | 26.000 | 25.736 | 25.500 | 663 | | | 14 |
| 15 | 1040.0 | 985.9 | 957.7 | 567 | 25.960 | 25.716 | 25.490 | 568 | | | 15 |
| 16 | 1041.2 | 986.8 | 954.4 | 568 | 25.940 | 25.702 | 25.470 | 568 | | | 16 |
| 17 | 1036.5 | 987.7 | 955.5 | 580 | 25.920 | 25.693 | 25.470 | 649 | | | 17 |
| 18 | 1036.8 | 990.4 | 961.4 | 527 | 25.910 | 25.692 | 25.470 | 527 | | | 18 |
| 19 | 1038.7 | 995.0 | 967.2 | 525 | 25.910 | 25.701 | 25.480 | 525 | | | 19 |
| 20 | 1042.3 | 999.9 | 970.1 | 547 | 25.970 | 25.717 | 25.500 | 609 | | | 20 |
| 21 | 1044.7 | 1003.3 | 972.1 | 516 | 25.980 | 25.736 | 25.520 | 516 | | | 21 |
| 22 | 1048.6 | 1006.2 | 972.2 | 517 | 25.950 | 25.749 | 25.540 | 517 | | | 22 |
| 23 | 1051.5 | 1009.0 | 973.9 | 547 | 26.020 | 25.762 | 25.530 | 610 | | | 23 |
| BY MONTH | 1054.5 | 1003.7 | 954.4 | 13496 | 26.050 | 25.754 | 25.470 | 14029 | | | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF AUGUST

| HOUR | DENSITY (G/CC.M) | | | | STATION PRESSURE (IN OF Hg) | | | | TOTAL OBSERVATIONS | TOTAL OBSERVATIONS | HOUR |
|-------------|------------------|--------|--------|-----------------------|-----------------------------|--------|--------|-------|-----------------------|-----------------------|------|
| | HIGH | MEAN | LOW | TOTAL OBSERVATIONS | HIGH | MEAN | LOW | | | | |
| C | 1045.2 | 1015.7 | 989.0 | 561 | 25.970 | 25.772 | 25.550 | 561 | 0 | | |
| 1 | 1046.5 | 1018.0 | 990.0 | 570 | 25.960 | 25.771 | 25.540 | 570 | 1 | | |
| 2 | 1049.8 | 1020.3 | 991.5 | 601 | 26.000 | 25.770 | 25.530 | 666 | 2 | | |
| 3 | 1052.3 | 1022.3 | 996.5 | 569 | 25.960 | 25.769 | 25.530 | 569 | 3 | | |
| 4 | 1058.8 | 1024.5 | 998.4 | 570 | 25.960 | 25.771 | 25.530 | 570 | 4 | | |
| 5 | 1056.1 | 1026.5 | 1000.6 | 599 | 25.970 | 25.778 | 25.540 | 664 | 5 | | |
| 6 | 1054.4 | 1027.0 | 1000.4 | 566 | 25.970 | 25.788 | 25.550 | 566 | 6 | | |
| 7 | 1048.4 | 1021.8 | 995.8 | 569 | 25.990 | 25.801 | 25.560 | 569 | 7 | | |
| 8 | 1046.1 | 1016.5 | 992.5 | 600 | 26.000 | 25.809 | 25.570 | 665 | 8 | | |
| 9 | 1045.9 | 1011.2 | 983.1 | 569 | 26.000 | 25.814 | 25.590 | 569 | 9 | | |
| 10 | 1042.6 | 1006.1 | 975.8 | 568 | 26.000 | 25.814 | 25.580 | 568 | 10 | | |
| 11 | 1042.3 | 1001.5 | 975.8 | 601 | 26.010 | 25.801 | 25.590 | 666 | 11 | | |
| 12 | 1041.0 | 997.0 | 972.8 | 569 | 25.980 | 25.784 | 25.580 | 569 | 12 | | |
| 13 | 1037.4 | 993.9 | 968.4 | 570 | 25.960 | 25.764 | 25.570 | 570 | 13 | | |
| 14 | 1038.1 | 991.8 | 967.7 | 598 | 25.950 | 25.744 | 25.560 | 663 | 14 | | |
| 15 | 1038.1 | 990.9 | 963.8 | 569 | 25.930 | 25.724 | 25.540 | 569 | 15 | | |
| 16 | 1035.7 | 991.3 | 965.0 | 569 | 25.920 | 25.712 | 25.510 | 569 | 16 | | |
| 17 | 1038.7 | 993.0 | 966.4 | 578 | 25.940 | 25.706 | 25.520 | 648 | 17 | | |
| 18 | 1038.4 | 996.2 | 972.0 | 539 | 25.940 | 25.705 | 25.510 | 539 | 18 | | |
| 19 | 1042.3 | 1001.2 | 978.0 | 539 | 25.950 | 25.714 | 25.520 | 539 | 19 | | |
| 20 | 1049.0 | 1005.3 | 978.6 | 568 | 25.960 | 25.730 | 25.530 | 633 | 20 | | |
| 21 | 1050.8 | 1008.5 | 982.7 | 539 | 25.980 | 25.750 | 25.550 | 539 | 21 | | |
| 22 | 1054.5 | 1010.9 | 986.0 | 539 | 25.980 | 25.759 | 25.560 | 539 | 22 | | |
| 23 | 1056.8 | 1013.2 | 987.9 | 567 | 26.000 | 25.769 | 25.550 | 632 | 23 | | |
| BY MONTH | 1058.8 | 1008.6 | 963.8 | 13687 | 26.010 | 25.764 | 25.510 | 14212 | | | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATIC - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| HOUR | DENSITY (G/CM.) | | | TOTAL OBSERVATIONS | STATION PRESSURE (IN OF HG.) | | | TOTAL OBSERVATIONS | HOUR |
|-------------|-----------------|--------|--------|-----------------------|------------------------------|--------|--------|-----------------------|------|
| | HIGH | MEAN | LOW | | HIGH | MEAN | LOW | | |
| 0 | 1082.1 | 1025.9 | 994.1 | 550 | 26.020 | 25.755 | 25.510 | 550 | 0 |
| 1 | 1080.9 | 1026.4 | 992.7 | 548 | 26.020 | 25.756 | 25.500 | 548 | 1 |
| 2 | 1082.7 | 1030.4 | 991.4 | 575 | 26.010 | 25.752 | 25.510 | 638 | 2 |
| 3 | 1082.2 | 1033.0 | 996.3 | 548 | 26.000 | 25.755 | 25.510 | 548 | 3 |
| 4 | 1081.4 | 1035.2 | 1001.4 | 549 | 26.000 | 25.758 | 25.510 | 549 | 4 |
| 5 | 1081.6 | 1037.3 | 1004.1 | 578 | 26.020 | 25.762 | 25.510 | 641 | 5 |
| 6 | 1084.7 | 1039.5 | 1002.5 | 548 | 26.020 | 25.776 | 25.510 | 548 | 6 |
| 7 | 1085.0 | 1034.8 | 1001.4 | 546 | 26.040 | 25.790 | 25.520 | 546 | 7 |
| 8 | 1086.0 | 1028.4 | 997.8 | 574 | 26.040 | 25.797 | 25.530 | 637 | 8 |
| 9 | 1084.1 | 1022.2 | 989.4 | 546 | 26.050 | 25.807 | 25.540 | 546 | 9 |
| 10 | 1080.4 | 1016.4 | 989.6 | 547 | 26.050 | 25.809 | 25.540 | 547 | 10 |
| 11 | 1080.4 | 1011.1 | 984.1 | 575 | 26.040 | 25.792 | 25.540 | 638 | 11 |
| 12 | 1080.1 | 1006.3 | 976.9 | 548 | 26.030 | 25.775 | 25.500 | 548 | 12 |
| 13 | 1077.7 | 1002.7 | 976.4 | 549 | 26.020 | 25.753 | 25.480 | 549 | 13 |
| 14 | 1076.9 | 1000.4 | 974.6 | 576 | 26.010 | 25.727 | 25.450 | 640 | 14 |
| 15 | 1072.3 | 999.1 | 974.0 | 546 | 26.000 | 25.715 | 25.440 | 546 | 15 |
| 16 | 1072.6 | 999.6 | 972.1 | 548 | 26.000 | 25.705 | 25.430 | 548 | 16 |
| 17 | 1074.9 | 1002.1 | 976.1 | 563 | 26.000 | 25.700 | 25.450 | 630 | 17 |
| 18 | 1079.5 | 1007.0 | 979.6 | 529 | 26.000 | 25.703 | 25.470 | 529 | 18 |
| 19 | 1079.8 | 1012.5 | 984.2 | 531 | 26.010 | 25.712 | 25.470 | 531 | 19 |
| 20 | 1080.2 | 1016.7 | 987.3 | 558 | 26.030 | 25.726 | 25.470 | 621 | 20 |
| 21 | 1080.8 | 1019.3 | 988.8 | 528 | 26.040 | 25.742 | 25.510 | 528 | 21 |
| 22 | 1080.9 | 1021.7 | 993.0 | 530 | 26.040 | 25.748 | 25.510 | 530 | 22 |
| 23 | 1080.2 | 1024.0 | 994.4 | 560 | 26.030 | 25.751 | 25.490 | 623 | 23 |
| BY MONTH | 1086.0 | 1018.9 | 972.1 | 13250 | 26.050 | 25.753 | 25.430 | 13759 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF OCTOBER

| DENSITY (G/C.C.M) | | | | STATION PRESSURE (IN OF Hg.) | | | | | |
|-------------------|-----------------------|--------|--------|------------------------------|-----------------------|--------|--------|-------|----|
| HOUR | TOTAL OBSERVATIONS | | | HOUR | TOTAL OBSERVATIONS | | | | |
| | HIGH | MEAN | LOW | | HIGH | MEAN | LOW | | |
| 0 | 1105.3 | 1047.7 | 1004.7 | 569 | 26.110 | 25.775 | 25.300 | 569 | 0 |
| 1 | 1107.7 | 1050.1 | 1007.1 | 569 | 26.110 | 25.777 | 25.410 | 570 | 1 |
| 2 | 1109.9 | 1052.2 | 1007.5 | 601 | 26.110 | 25.772 | 25.330 | 672 | 2 |
| 3 | 1105.4 | 1054.3 | 1011.0 | 570 | 26.120 | 25.775 | 25.370 | 570 | 3 |
| 4 | 1109.9 | 1056.5 | 1011.6 | 570 | 26.120 | 25.778 | 25.370 | 570 | 4 |
| 5 | 1112.5 | 1058.8 | 1014.6 | 600 | 26.140 | 25.782 | 25.340 | 670 | 5 |
| 6 | 1114.7 | 1061.6 | 1017.4 | 575 | 26.160 | 25.796 | 25.370 | 575 | 6 |
| 7 | 1113.1 | 1058.5 | 1015.6 | 573 | 26.180 | 25.807 | 25.390 | 573 | 7 |
| 8 | 1101.4 | 1051.3 | 1008.9 | 605 | 26.200 | 25.818 | 25.410 | 675 | 8 |
| 9 | 1090.6 | 1044.9 | 1002.2 | 574 | 26.220 | 25.832 | 25.440 | 574 | 9 |
| 10 | 1090.9 | 1038.7 | 1000.2 | 572 | 26.220 | 25.831 | 25.440 | 572 | 10 |
| 11 | 1091.4 | 1032.5 | 996.3 | 606 | 26.180 | 25.812 | 25.420 | 676 | 11 |
| 12 | 1088.5 | 1027.2 | 991.5 | 572 | 26.140 | 25.797 | 25.410 | 572 | 12 |
| 13 | 1085.5 | 1022.6 | 989.6 | 570 | 26.110 | 25.768 | 25.380 | 570 | 13 |
| 14 | 1084.7 | 1019.8 | 987.6 | 600 | 26.090 | 25.745 | 25.330 | 670 | 14 |
| 15 | 1084.1 | 1018.9 | 987.1 | 572 | 26.070 | 25.739 | 25.340 | 572 | 15 |
| 16 | 1084.2 | 1019.7 | 987.1 | 569 | 26.060 | 25.732 | 25.340 | 569 | 16 |
| 17 | 1085.3 | 1023.7 | 990.7 | 578 | 26.060 | 25.728 | 25.300 | 651 | 17 |
| 18 | 1085.2 | 1031.1 | 994.9 | 547 | 26.040 | 25.736 | 25.340 | 547 | 18 |
| 19 | 1089.6 | 1035.8 | 996.4 | 548 | 26.060 | 25.746 | 25.350 | 548 | 19 |
| 20 | 1091.0 | 1038.9 | 999.1 | 578 | 26.090 | 25.751 | 25.320 | 647 | 20 |
| 21 | 1090.4 | 1041.6 | 1001.4 | 549 | 26.090 | 25.765 | 25.370 | 549 | 21 |
| 22 | 1094.4 | 1044.2 | 1003.2 | 547 | 26.090 | 25.772 | 25.360 | 547 | 22 |
| 23 | 1096.5 | 1046.4 | 1004.5 | 578 | 26.110 | 25.771 | 25.330 | 647 | 23 |
| BY MONTH | 1114.7 | 1040.7 | 987.1 | 13792 | 26.220 | 25.775 | 25.300 | 14355 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF NOVEMBER

| HOUR | DENSITY (G/CU.M) | | | TOTAL OBSERVATIONS | STATION PRESSURE (IN OF HG) | | | TOTAL OBSERVATIONS | HOUR |
|-------------|------------------|--------|--------|-----------------------|-----------------------------|--------|--------|-----------------------|------|
| | HIGH | MEAN | LOW | | HIGH | MEAN | LOW | | |
| 0 | 1134.5 | 1072.4 | 1024.5 | 548 | 26.180 | 25.781 | 25.430 | 548 | 0 |
| 1 | 1134.5 | 1074.2 | 1026.2 | 552 | 26.180 | 25.781 | 25.410 | 552 | 1 |
| 2 | 1139.6 | 1076.3 | 1026.1 | 579 | 26.190 | 25.782 | 25.340 | 637 | 2 |
| 3 | 1136.8 | 1078.2 | 1026.9 | 551 | 26.190 | 25.779 | 25.400 | 551 | 3 |
| 4 | 1140.5 | 1080.0 | 1028.3 | 552 | 26.190 | 25.779 | 25.390 | 552 | 4 |
| 5 | 1147.3 | 1082.1 | 1030.5 | 582 | 26.210 | 25.785 | 25.290 | 640 | 5 |
| 6 | 1146.2 | 1084.3 | 1030.4 | 551 | 26.220 | 25.791 | 25.360 | 551 | 6 |
| 7 | 1141.8 | 1084.3 | 1031.5 | 551 | 26.240 | 25.803 | 25.410 | 551 | 7 |
| 8 | 1139.0 | 1078.0 | 1028.2 | 576 | 26.260 | 25.821 | 25.360 | 634 | 8 |
| 9 | 1128.5 | 1071.6 | 1027.3 | 551 | 26.270 | 25.829 | 25.460 | 551 | 9 |
| 10 | 1125.9 | 1065.9 | 1023.7 | 552 | 26.280 | 25.832 | 25.450 | 552 | 10 |
| 11 | 1122.8 | 1060.1 | 1021.0 | 579 | 26.260 | 25.821 | 25.390 | 637 | 11 |
| 12 | 1121.7 | 1053.4 | 1012.9 | 549 | 26.230 | 25.793 | 25.400 | 549 | 12 |
| 13 | 1120.5 | 1048.5 | 1008.3 | 549 | 26.200 | 25.767 | 25.390 | 549 | 13 |
| 14 | 1114.8 | 1046.1 | 1010.1 | 575 | 26.170 | 25.753 | 25.360 | 633 | 14 |
| 15 | 1114.6 | 1044.4 | 1009.8 | 549 | 26.140 | 25.741 | 25.390 | 549 | 15 |
| 16 | 1119.5 | 1046.1 | 1009.9 | 548 | 26.150 | 25.738 | 25.400 | 548 | 16 |
| 17 | 1123.6 | 1052.7 | 1013.6 | 564 | 26.140 | 25.741 | 25.330 | 630 | 17 |
| 18 | 1121.2 | 1058.5 | 1015.4 | 528 | 26.140 | 25.747 | 25.390 | 528 | 18 |
| 19 | 1121.2 | 1062.1 | 1019.3 | 528 | 26.150 | 25.757 | 25.400 | 528 | 19 |
| 20 | 1125.8 | 1065.2 | 1018.0 | 554 | 26.160 | 25.766 | 25.360 | 614 | 20 |
| 21 | 1126.6 | 1067.3 | 1020.9 | 527 | 26.160 | 25.773 | 25.400 | 527 | 21 |
| 22 | 1126.4 | 1069.4 | 1023.2 | 526 | 26.180 | 25.780 | 25.400 | 526 | 22 |
| 23 | 1131.7 | 1071.6 | 1024.9 | 558 | 26.180 | 25.784 | 25.360 | 618 | 23 |
| BY MONTH | 1147.3 | 1066.4 | 1008.3 | 13279 | 26.280 | 25.780 | 25.290 | 13755 | |

TABLE VI (CONT)

MEAN AND EXTREME DENSITY AND STATION PRESSURE BY MONTH AND BY HOUR
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF DECEMBER

| HOUR | DENSITY (G/CU.M) | | | STATION PRESSURE (IN OF HG) | | | TOTAL OBSERVATIONS | TOTAL OBSERVATIONS | HOUR |
|-------------|------------------|--------|--------|-----------------------------|--------|--------|-----------------------|-----------------------|------|
| | HIGH | MEAN | LOW | HIGH | MEAN | LOW | | | |
| 0 | 1157.5 | 1088.7 | 1029.3 | 26.250 | 25.774 | 25.240 | 563 | 563 | 0 |
| 1 | 1157.6 | 1090.2 | 1029.2 | 26.240 | 25.769 | 25.230 | 566 | 566 | 1 |
| 2 | 1165.0 | 1091.3 | 1030.8 | 26.250 | 25.771 | 25.220 | 597 | 638 | 2 |
| 3 | 1169.5 | 1093.8 | 1027.6 | 26.250 | 25.771 | 25.210 | 567 | 567 | 3 |
| 4 | 1163.0 | 1095.0 | 1027.5 | 26.250 | 25.766 | 25.200 | 567 | 567 | 4 |
| 5 | 1175.7 | 1096.2 | 1025.2 | 26.270 | 25.767 | 25.240 | 598 | 639 | 5 |
| 6 | 1180.3 | 1098.5 | 1027.5 | 26.270 | 25.773 | 25.280 | 567 | 567 | 6 |
| 7 | 1177.8 | 1099.9 | 1027.2 | 26.270 | 25.783 | 25.280 | 565 | 565 | 7 |
| 8 | 1175.3 | 1095.0 | 1025.2 | 26.270 | 25.800 | 25.270 | 596 | 650 | 8 |
| 9 | 1153.2 | 1089.1 | 1025.6 | 26.280 | 25.810 | 25.280 | 564 | 564 | 9 |
| 10 | 1150.6 | 1083.6 | 1022.2 | 26.290 | 25.818 | 25.280 | 564 | 564 | 10 |
| 11 | 1146.8 | 1077.3 | 1023.2 | 26.250 | 25.808 | 25.270 | 596 | 650 | 11 |
| 12 | 1143.3 | 1071.4 | 1019.0 | 26.220 | 25.782 | 25.240 | 562 | 562 | 12 |
| 13 | 1137.3 | 1065.9 | 1014.4 | 26.210 | 25.755 | 25.260 | 563 | 563 | 13 |
| 14 | 1132.6 | 1062.4 | 1011.1 | 26.180 | 25.740 | 25.230 | 591 | 644 | 14 |
| 15 | 1132.3 | 1061.6 | 1014.9 | 26.180 | 25.732 | 25.210 | 563 | 563 | 15 |
| 16 | 1131.5 | 1063.2 | 1014.4 | 26.180 | 25.731 | 25.200 | 564 | 564 | 16 |
| 17 | 1136.0 | 1069.5 | 1018.6 | 26.180 | 25.736 | 25.210 | 581 | 622 | 17 |
| 18 | 1140.6 | 1075.8 | 1020.8 | 26.190 | 25.741 | 25.200 | 550 | 550 | 18 |
| 19 | 1143.1 | 1078.9 | 1022.8 | 26.210 | 25.750 | 25.220 | 550 | 550 | 19 |
| 20 | 1146.0 | 1080.8 | 1021.0 | 26.220 | 25.758 | 25.240 | 576 | 614 | 20 |
| 21 | 1148.3 | 1083.0 | 1022.8 | 26.240 | 25.763 | 25.270 | 546 | 546 | 21 |
| 22 | 1150.8 | 1085.1 | 1023.8 | 26.240 | 25.769 | 25.270 | 548 | 548 | 22 |
| 23 | 1155.1 | 1086.7 | 1025.1 | 26.240 | 25.776 | 25.250 | 580 | 618 | 23 |
| BY MONTH | 1180.3 | 1082.7 | 1011.1 | 26.290 | 25.769 | 25.200 | 13684 | 14044 | |

SECTION III

CLOUDS

| | PAGE |
|--|------|
| Table VII. Diurnal Variation of the Relative Frequency Distribution of Cloudiness Types by Month and by Hour ----- | 77 |

CLOUD CLASSIFICATION (11)

Family A: High Clouds
(Mean lower level, 6,000 meters, 20,000 feet)

Cirrus (Ci)
Cirrocumulus (Cc)
Cirrostratus (Cs)

Family B: Middle Clouds
(Mean upper level, 6,000 meters, 20,000 feet;
mean lower level, 2,000 meters, 6,500 feet)

Alto cumulus (Ac)
Alto stratus (As)

Family C: Low Clouds
(Mean upper level 2,000 meters, 6,500 feet;
mean lower level, close to the surface)

Strato cumulus (Sc)
Stratus (St)
Nimbostratus (Ns)

Family D: Clouds With Vertical Development
(Mean upper level, that of cirrus; mean lower
level 500 meters, 1,600 feet)

Cumulus (Cu)
Cumulonimbus (Cb)

TABLE VII

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JANUARY

| HOUR | CUMULUS | | | CIRRUS | STRATUS | | | ALTOSTRATUS | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------|--------------|----------------|-------------|-------------|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | | CIRROCUMULUS | FRAC TOCUMULUS | ALTOCUMULUS | | | |
| | | | | | | | | | | |
| 0 | 1 | | 31 | 11 | 14 | 3 | 651 | 0 | | |
| 1 | 1 | | 30 | 10 | 14 | 4 | 657 | 1 | | |
| 2 | 1 | | 34 | 13 | 15 | 6 | 658 | 2 | | |
| 3 | 1 | | 30 | 10 | 15 | 4 | 658 | 3 | | |
| 4 | 0 | | 29 | 10 | 15 | 4 | 656 | 4 | | |
| 5 | 0 | | 32 | 14 | 16 | 5 | 661 | 5 | | |
| 6 | 1 | | 33 | 13 | 19 | 5 | 662 | 6 | | |
| 7 | 3 | | 46 | 17 | 29 | 7 | 663 | 7 | | |
| 8 | 4 | | 53 | 19 | 31 | 8 | 664 | 8 | | |
| 9 | 5 | | 50 | 16 | 29 | 6 | 667 | 9 | | |
| 10 | 6 | | 52 | 16 | 28 | 6 | 665 | 10 | | |
| 11 | 9 | | 60 | 19 | 31 | 5 | 666 | 11 | | |
| 12 | 11 | | 53 | 15 | 26 | 3 | 662 | 12 | | |
| 13 | 11 | | 53 | 15 | 24 | 3 | 662 | 13 | | |
| 14 | 13 | | 60 | 18 | 25 | 3 | 663 | 14 | | |
| 15 | 12 | | 51 | 14 | 23 | 3 | 662 | 15 | | |
| 16 | 11 | | 53 | 15 | 21 | 4 | 661 | 16 | | |
| 17 | 9 | | 58 | 18 | 24 | 7 | 650 | 17 | | |
| 18 | 5 | | 46 | 14 | 21 | 4 | 640 | 18 | | |
| 19 | 3 | | 38 | 12 | 16 | 3 | 660 | 19 | | |
| 20 | 2 | | 40 | 14 | 15 | 6 | 659 | 20 | | |
| 21 | 1 | | 32 | 10 | 13 | 3 | 658 | 21 | | |
| 22 | 2 | | 32 | 9 | 13 | 4 | 658 | 22 | | |
| 23 | 2 | | 37 | 11 | 14 | 5 | 641 | 23 | | |
| BY MONTH | 5 | | 43 | 14 | 21 | 5 | 15806 | | | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF FEBRUARY

| HOUR | CUMULUS | | | CIRRUS | | STRATUS | | ALTOSTRATUS | | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------------|--------------|----------------|----------------|-------------|--------------|--|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRROCUMULUS | CIRROSTRATUS | FRAC TOCUMULUS | FRAC TOCUMULUS | ALTOCUMULUS | NIMBOSTRATUS | | | |
| 0 | 1 | | | 28 | | 10 | | 13 | 4 | | 603 | 0 |
| 1 | 2 | | | 26 | | 10 | | 12 | 2 | | 604 | 1 |
| 2 | 2 | | | 27 | | 12 | | 14 | 4 | | 603 | 2 |
| 3 | 1 | | | 25 | | 11 | | 11 | 4 | | 603 | 3 |
| 4 | 1 | | | 26 | | 10 | | 11 | 4 | | 604 | 4 |
| 5 | 1 | | | 29 | | 11 | | 14 | 5 | | 605 | 5 |
| 6 | 1 | | | 35 | | 12 | | 24 | 5 | | 603 | 6 |
| 7 | 2 | | | 44 | | 18 | | 32 | 6 | | 604 | 7 |
| 8 | 4 | | | 51 | | 19 | | 34 | 8 | | 603 | 8 |
| 9 | 5 | | | 43 | | 16 | | 27 | 5 | | 604 | 9 |
| 10 | 10 | | | 46 | | 16 | | 27 | 3 | | 604 | 10 |
| 11 | 16 | | | 54 | | 18 | | 29 | 4 | | 604 | 11 |
| 12 | 18 | | | 48 | | 13 | | 22 | 3 | | 605 | 12 |
| 13 | 21 | | | 47 | | 14 | | 22 | 3 | | 605 | 13 |
| 14 | 25 | | | 54 | | 16 | | 26 | 4 | | 604 | 14 |
| 15 | 21 | | | 48 | | 13 | | 22 | 4 | | 605 | 15 |
| 16 | 19 | | | 49 | | 14 | | 21 | 4 | | 604 | 16 |
| 17 | 18 | | | 52 | | 19 | | 25 | 6 | | 594 | 17 |
| 18 | 10 | | | 43 | | 16 | | 21 | 6 | | 587 | 18 |
| 19 | 5 | | | 36 | | 13 | | 17 | 5 | | 603 | 19 |
| 20 | 4 | | | 37 | | 12 | | 17 | 6 | | 604 | 20 |
| 21 | 2 | | | 30 | | 11 | | 13 | 3 | | 605 | 21 |
| 22 | 2 | | | 29 | | 9 | | 13 | 3 | | 604 | 22 |
| 23 | 3 | | | 33 | | 11 | | 16 | 5 | | 585 | 23 |
| BY MONTH | 8 | | | 39 | | 13 | | 20 | 4 | | 1449 | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MARCH

| HOUR | STRATUS | | | | ALTOSTRATUS | | | OBSERVATIONS | HOUR |
|----------|--------------|--------------|--------------|---------------|---------------|-------------|--------------|--------------|------|
| | CUMULONIMBUS | CIRROSTRATUS | CIRROCUMULUS | FRACTOSTRATUS | STRATOCUMULUS | ALTOCUMULUS | NIMBOSTRATUS | | |
| 0 | 3 | 26 | 9 | 15 | 3 | 664 | 0 | 664 | 0 |
| 1 | 3 | 25 | 9 | 14 | 3 | 666 | 1 | 666 | 1 |
| 2 | 3 | 28 | 11 | 16 | 4 | 664 | 2 | 664 | 2 |
| 3 | 2 | 26 | 10 | 14 | 3 | 665 | 3 | 665 | 3 |
| 4 | 3 | 27 | 9 | 14 | 4 | 667 | 4 | 667 | 4 |
| 5 | 3 | 34 | 13 | 19 | 4 | 667 | 5 | 667 | 5 |
| 6 | 4 | 42 | 17 | 30 | 6 | 663 | 6 | 663 | 6 |
| 7 | 5 | 41 | 17 | 31 | 6 | 664 | 7 | 664 | 7 |
| 8 | 7 | 50 | 19 | 34 | 6 | 666 | 8 | 666 | 8 |
| 9 | 9 | 45 | 17 | 31 | 4 | 666 | 9 | 666 | 9 |
| 10 | 15 | 46 | 14 | 27 | 5 | 669 | 10 | 669 | 10 |
| 11 | 25 | 54 | 15 | 28 | 4 | 667 | 11 | 667 | 11 |
| 12 | 23 | 45 | 11 | 23 | 3 | 665 | 12 | 665 | 12 |
| 13 | 27 | 46 | 11 | 21 | 3 | 663 | 13 | 663 | 13 |
| 14 | 34 | 56 | 13 | 22 | 5 | 663 | 14 | 663 | 14 |
| 15 | 29 | 48 | 12 | 20 | 3 | 663 | 15 | 663 | 15 |
| 16 | 28 | 48 | 11 | 19 | 4 | 664 | 16 | 664 | 16 |
| 17 | 28 | 52 | 14 | 23 | 7 | 648 | 17 | 648 | 17 |
| 18 | 18 | 46 | 12 | 23 | 5 | 636 | 18 | 636 | 18 |
| 19 | 10 | 37 | 12 | 20 | 5 | 662 | 19 | 662 | 19 |
| 20 | 7 | 39 | 12 | 16 | 6 | 661 | 20 | 661 | 20 |
| 21 | 5 | 31 | 8 | 13 | 4 | 661 | 21 | 661 | 21 |
| 22 | 4 | 29 | 9 | 14 | 4 | 659 | 22 | 659 | 22 |
| 23 | 5 | 33 | 11 | 15 | 5 | 639 | 23 | 639 | 23 |
| BY MONTH | 12 | 40 | 12 | 21 | 4 | 15872 | | | |

TABLE VII (CONT)

JOURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF APRIL

| HOUR | CUMULUS | | | CIRRUS | | STRATUS | | ALTOSTRATUS | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|---------|--------------|--------------|----------------|---------------|----------------|--------------|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CUMULUS | CIRROSTRATUS | CIRROCUMULUS | FRAC TOCUMULUS | STRATOCUMULUS | FRAC TOCUMULUS | NIMBOSTRATUS | | |
| 0 | 3 | | | 27 | 4 | 15 | 3 | 640 | 0 | | |
| 1 | 2 | | 25 | 25 | 5 | 16 | 3 | 641 | 1 | | |
| 2 | 2 | | 28 | 28 | 6 | 15 | 4 | 641 | 2 | | |
| 3 | 2 | | 24 | 24 | 6 | 15 | 4 | 642 | 3 | | |
| 4 | 2 | | 27 | 27 | 6 | 17 | 4 | 645 | 4 | | |
| 5 | 4 | | 43 | 43 | 9 | 30 | 6 | 644 | 5 | | |
| 6 | 6 | | 42 | 42 | 11 | 31 | 5 | 642 | 6 | | |
| 7 | 8 | | 43 | 43 | 9 | 27 | 5 | 641 | 7 | | |
| 8 | 9 | | 50 | 50 | 10 | 29 | 6 | 645 | 8 | | |
| 9 | 15 | | 45 | 45 | 7 | 24 | 5 | 643 | 9 | | |
| 10 | 23 | | 45 | 45 | 6 | 20 | 4 | 643 | 10 | | |
| 11 | 29 | | 52 | 52 | 6 | 20 | 5 | 642 | 11 | | |
| 12 | 32 | | 43 | 43 | 5 | 19 | 4 | 640 | 12 | | |
| 13 | 34 | | 45 | 45 | 5 | 19 | 4 | 642 | 13 | | |
| 14 | 41 | | 51 | 51 | 5 | 19 | 5 | 642 | 14 | | |
| 15 | 37 | | 46 | 46 | 5 | 18 | 4 | 641 | 15 | | |
| 16 | 36 | | 46 | 46 | 6 | 17 | 4 | 642 | 16 | | |
| 17 | 34 | | 52 | 52 | 7 | 21 | 6 | 608 | 17 | | |
| 18 | 24 | | 46 | 46 | 7 | 23 | 5 | 599 | 18 | | |
| 19 | 15 | | 41 | 41 | 8 | 23 | 6 | 616 | 19 | | |
| 20 | 9 | | 38 | 38 | 7 | 19 | 5 | 617 | 20 | | |
| 21 | 6 | | 31 | 31 | 6 | 16 | 3 | 616 | 21 | | |
| 22 | 6 | | 30 | 30 | 5 | 15 | 2 | 616 | 22 | | |
| 23 | 5 | | 32 | 32 | 6 | 16 | 3 | 598 | 23 | | |
| BY MONTH | 16 | | 40 | 40 | 7 | 20 | 4 | 15186 | | | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MAY

| HOUR | CUMULUS | | | CIRRUS | | STRATUS | | | ALTOCUMULUS | | ALTOSTRATUS | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------------|--------------|---------------|---------------|---------------|-------------|--------------|-------------|--|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRROCUMULUS | CIRROSTRATUS | FRACTOSTRATUS | FRACTOCUMULUS | STRATOCUMULUS | ALTOCUMULUS | NIMBOSTRATUS | ALTOSTRATUS | | | |
| 0 | 6 | | | | 25 | | | 5 | 14 | | 3 | | 651 | 0 |
| 1 | 5 | | | | 24 | | | 6 | 16 | | 3 | | 651 | 1 |
| 2 | 4 | | | | 25 | | | 6 | 18 | | 3 | | 653 | 2 |
| 3 | 4 | | | | 23 | | | 6 | 17 | | 3 | | 653 | 3 |
| 4 | 4 | | | | 30 | | | 7 | 24 | | 4 | | 666 | 4 |
| 5 | 7 | | | | 48 | | | 10 | 40 | | 6 | | 668 | 5 |
| 6 | 5 | | | | 42 | | | 8 | 33 | | 4 | | 664 | 6 |
| 7 | 7 | | | | 42 | | | 7 | 30 | | 3 | | 664 | 7 |
| 8 | 11 | | | | 47 | | | 7 | 33 | | 3 | | 667 | 8 |
| 9 | 22 | | | | 44 | | | 5 | 29 | | 2 | | 665 | 9 |
| 10 | 37 | | | | 44 | | | 4 | 23 | | 2 | | 667 | 10 |
| 11 | 51 | | | | 51 | | | 4 | 25 | | 2 | | 666 | 11 |
| 12 | 55 | | | | 43 | | | 3 | 18 | | 3 | | 665 | 12 |
| 13 | 59 | | | | 44 | | | 3 | 16 | | 3 | | 665 | 13 |
| 14 | 65 | | | | 49 | | | 3 | 18 | | 2 | | 665 | 14 |
| 15 | 60 | | | | 46 | | | 2 | 14 | | 2 | | 678 | 15 |
| 16 | 58 | | | | 44 | | | 4 | 14 | | 2 | | 668 | 16 |
| 17 | 60 | | | | 50 | | | 4 | 19 | | 4 | | 634 | 17 |
| 18 | 46 | | | | 46 | | | 5 | 21 | | 4 | | 624 | 18 |
| 19 | 33 | | | | 43 | | | 8 | 23 | | 5 | | 643 | 19 |
| 20 | 21 | | | | 42 | | | 7 | 21 | | 4 | | 626 | 20 |
| 21 | 12 | | | | 33 | | | 5 | 15 | | 3 | | 623 | 21 |
| 22 | 10 | | | | 29 | | | 5 | 13 | | 2 | | 623 | 22 |
| 23 | 9 | | | | 31 | | | 5 | 16 | | 3 | | 608 | 23 |
| BY MONTH | 27 | | | | 39 | | | 5 | 21 | | 3 | | 15657 | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JUNE

| HOURLY | CUMULUS | CUMULONIMBUS | CIRRUS | STRATUS | STRATOCUMULUS | FRACTOSTRATUS | ALTOSTRATUS | NIMBOSTRATUS | OBSERVATIONS | HOURLY |
|----------|---------|--------------|--------|---------|---------------|---------------|-------------|--------------|--------------|--------|
| 0 | 12 | 12 | 24 | 9 | 16 | 2 | 590 | 0 | | 0 |
| 1 | 9 | 21 | 21 | 8 | 17 | 1 | 611 | 1 | | 1 |
| 2 | 8 | 22 | 22 | 8 | 22 | 1 | 609 | 1 | | 2 |
| 3 | 5 | 20 | 20 | 7 | 19 | 1 | 613 | 1 | | 3 |
| 4 | 7 | 28 | 28 | 6 | 33 | 1 | 643 | 1 | | 4 |
| 5 | 13 | 45 | 45 | 12 | 48 | 3 | 642 | 3 | | 5 |
| 6 | 9 | 39 | 39 | 9 | 40 | 2 | 640 | 2 | | 6 |
| 7 | 10 | 38 | 38 | 8 | 38 | 1 | 641 | 1 | | 7 |
| 8 | 16 | 39 | 39 | 8 | 41 | 1 | 641 | 1 | | 8 |
| 9 | 26 | 36 | 36 | 6 | 32 | 2 | 642 | 2 | | 9 |
| 10 | 43 | 35 | 35 | 5 | 29 | 1 | 641 | 1 | | 10 |
| 11 | 61 | 38 | 38 | 4 | 28 | 2 | 643 | 2 | | 11 |
| 12 | 61 | 34 | 34 | 3 | 23 | 1 | 644 | 1 | | 12 |
| 13 | 66 | 32 | 32 | 2 | 20 | 1 | 642 | 1 | | 13 |
| 14 | 78 | 37 | 37 | 3 | 17 | 2 | 644 | 2 | | 14 |
| 15 | 67 | 36 | 36 | 3 | 16 | 1 | 673 | 1 | | 15 |
| 16 | 66 | 39 | 39 | 3 | 16 | 2 | 647 | 2 | | 16 |
| 17 | 72 | 47 | 47 | 6 | 19 | 3 | 636 | 3 | | 17 |
| 18 | 58 | 43 | 43 | 6 | 19 | 3 | 608 | 3 | | 18 |
| 19 | 48 | 41 | 41 | 10 | 25 | 5 | 620 | 5 | | 19 |
| 20 | 41 | 41 | 41 | 10 | 22 | 6 | 591 | 6 | | 20 |
| 21 | 25 | 28 | 28 | 7 | 17 | 3 | 592 | 3 | | 21 |
| 22 | 20 | 23 | 23 | 7 | 15 | 2 | 589 | 2 | | 22 |
| 23 | 17 | 27 | 27 | 9 | 15 | 2 | 575 | 2 | | 23 |
| BY MONTH | 35 | 34 | 34 | 7 | 25 | 2 | 15017 | 2 | | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF JULY

| HOUR | CUMULUS | | | CIRRUS | | | STRATUS | | | ALTOSTRATUS | | | NIMBOSTRATUS | | | OBSERVATIONS | | | HOUR |
|----------|--------------|-----------------|---------|--------------|--------------|--------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CUMULUS | CIRROSTRATUS | CIRROCUMULUS | CIRRUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | |
| 0 | 24 | | | 31 | | | 10 | | | 34 | | | 4 | | | 628 | | | 0 |
| 1 | 22 | | | 30 | | | 9 | | | 36 | | | 3 | | | 654 | | | 1 |
| 2 | 18 | | | 29 | | | 12 | | | 39 | | | 4 | | | 654 | | | 2 |
| 3 | 13 | | | 26 | | | 10 | | | 36 | | | 4 | | | 654 | | | 3 |
| 4 | 12 | | | 29 | | | 11 | | | 49 | | | 4 | | | 665 | | | 4 |
| 5 | 20 | | | 52 | | | 20 | | | 67 | | | 5 | | | 664 | | | 5 |
| 6 | 17 | | | 49 | | | 17 | | | 60 | | | 4 | | | 663 | | | 6 |
| 7 | 16 | | | 49 | | | 14 | | | 56 | | | 3 | | | 663 | | | 7 |
| 8 | 22 | | | 53 | | | 16 | | | 59 | | | 4 | | | 662 | | | 8 |
| 9 | 42 | | | 46 | | | 12 | | | 49 | | | 3 | | | 663 | | | 9 |
| 10 | 63 | | | 49 | | | 9 | | | 43 | | | 2 | | | 664 | | | 10 |
| 11 | 86 | | | 53 | | | 8 | | | 41 | | | 2 | | | 664 | | | 11 |
| 12 | 80 | | | 47 | | | 5 | | | 31 | | | 2 | | | 666 | | | 12 |
| 13 | 81 | | | 46 | | | 3 | | | 25 | | | 2 | | | 665 | | | 13 |
| 14 | 96 | | | 56 | | | 4 | | | 24 | | | 2 | | | 663 | | | 14 |
| 15 | 83 | | | 52 | | | 3 | | | 23 | | | 2 | | | 673 | | | 15 |
| 16 | 82 | | | 53 | | | 3 | | | 22 | | | 3 | | | 663 | | | 16 |
| 17 | 94 | | | 62 | | | 5 | | | 27 | | | 5 | | | 649 | | | 17 |
| 18 | 78 | | | 57 | | | 6 | | | 30 | | | 4 | | | 622 | | | 18 |
| 19 | 67 | | | 56 | | | 9 | | | 37 | | | 4 | | | 639 | | | 19 |
| 20 | 62 | | | 53 | | | 13 | | | 38 | | | 6 | | | 629 | | | 20 |
| 21 | 40 | | | 40 | | | 13 | | | 33 | | | 3 | | | 628 | | | 21 |
| 22 | 34 | | | 37 | | | 11 | | | 33 | | | 3 | | | 628 | | | 22 |
| 23 | 36 | | | 39 | | | 11 | | | 37 | | | 5 | | | 615 | | | 23 |
| BY MONTH | 50 | | | 46 | | | 10 | | | 39 | | | 3 | | | 15638 | | | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF AUGUST

| HOUR | CUMULUS | | | | STRATUS | | | ALTOSTRATUS | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------|----------------|---------------|----------------|-------------|--------------|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRRUS | FRAC TOCUMULUS | STRATOCUMULUS | FRAC TOSTRATUS | ALTOCUMULUS | NIMBOSTRATUS | | |
| 0 | 18 | | | 29 | 8 | | | 37 | 3 | 656 | 0 |
| 1 | 15 | | | 25 | 8 | | | 38 | 3 | 666 | 1 |
| 2 | 16 | | | 29 | 9 | | | 43 | 4 | 666 | 2 |
| 3 | 9 | | | 27 | 8 | | | 40 | 3 | 665 | 3 |
| 4 | 9 | | | 28 | 9 | | | 41 | 3 | 666 | 4 |
| 5 | 14 | | | 46 | 16 | | | 68 | 5 | 666 | 5 |
| 6 | 14 | | | 49 | 15 | | | 60 | 3 | 664 | 6 |
| 7 | 12 | | | 43 | 14 | | | 60 | 2 | 662 | 7 |
| 8 | 22 | | | 53 | 15 | | | 64 | 2 | 665 | 8 |
| 9 | 43 | | | 46 | 11 | | | 52 | 1 | 665 | 9 |
| 10 | 65 | | | 44 | 8 | | | 45 | 1 | 664 | 10 |
| 11 | 89 | | | 50 | 6 | | | 44 | 1 | 666 | 11 |
| 12 | 80 | | | 42 | 4 | | | 32 | 1 | 666 | 12 |
| 13 | 82 | | | 42 | 2 | | | 26 | 1 | 666 | 13 |
| 14 | 97 | | | 53 | 3 | | | 27 | 2 | 664 | 14 |
| 15 | 83 | | | 50 | 3 | | | 24 | 1 | 665 | 15 |
| 16 | 82 | | | 54 | 3 | | | 26 | 2 | 665 | 16 |
| 17 | 93 | | | 64 | 4 | | | 33 | 4 | 648 | 17 |
| 18 | 72 | | | 58 | 7 | | | 39 | 4 | 636 | 18 |
| 19 | 58 | | | 52 | 9 | | | 40 | 3 | 654 | 19 |
| 20 | 50 | | | 51 | 9 | | | 40 | 5 | 654 | 20 |
| 21 | 33 | | | 36 | 7 | | | 36 | 3 | 653 | 21 |
| 22 | 27 | | | 34 | 8 | | | 36 | 3 | 653 | 22 |
| 23 | 27 | | | 38 | 10 | | | 43 | 3 | 635 | 23 |
| BY MONTH | 46 | | | 43 | 8 | | | 41 | 3 | 15829 | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| HOUR | CUMULUS | | | | STRATUS | | | ALTOSTRATUS | | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------|---------------|-----------------|----------------|-----------------|--------------|---------------|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRRUS | CIRRO-CUMULUS | FRAC-TO-STRATUS | STRATO-CUMULUS | FRAC-TO-STRATUS | ALTO-CUMULUS | NIMBO-STRATUS | | |
| 0 | 10 | | | 22 | | 7 | | | 26 | 1 | 642 | 0 |
| 1 | 7 | | 21 | | | 8 | | | 26 | 1 | 640 | 1 |
| 2 | 7 | | 20 | | | 10 | | | 29 | 2 | 641 | 2 |
| 3 | 5 | | 18 | | | 9 | | | 26 | 2 | 643 | 3 |
| 4 | 5 | | 18 | | | 9 | | | 25 | 2 | 644 | 4 |
| 5 | 7 | | 25 | | | 13 | | | 41 | 4 | 643 | 5 |
| 6 | 10 | | 30 | | | 15 | | | 48 | 3 | 639 | 6 |
| 7 | 10 | | 28 | | | 16 | | | 44 | 1 | 637 | 7 |
| 8 | 13 | | 31 | | | 17 | | | 49 | 2 | 637 | 8 |
| 9 | 26 | | 27 | | | 14 | | | 38 | 1 | 637 | 9 |
| 10 | 43 | | 25 | | | 12 | | | 35 | 1 | 640 | 10 |
| 11 | 63 | | 30 | | | 12 | | | 37 | 2 | 640 | 11 |
| 12 | 60 | | 25 | | | 8 | | | 27 | 1 | 640 | 12 |
| 13 | 67 | | 25 | | | 7 | | | 24 | 1 | 642 | 13 |
| 14 | 78 | | 31 | | | 9 | | | 26 | 2 | 642 | 14 |
| 15 | 67 | | 31 | | | 6 | | | 23 | 2 | 639 | 15 |
| 16 | 65 | | 32 | | | 6 | | | 26 | 2 | 641 | 16 |
| 17 | 70 | | 40 | | | 9 | | | 34 | 2 | 632 | 17 |
| 18 | 51 | | 33 | | | 8 | | | 34 | 2 | 622 | 18 |
| 19 | 34 | | 29 | | | 8 | | | 29 | 3 | 652 | 19 |
| 20 | 25 | | 28 | | | 8 | | | 28 | 3 | 646 | 20 |
| 21 | 18 | | 22 | | | 7 | | | 24 | 2 | 642 | 21 |
| 22 | 15 | | 22 | | | 6 | | | 24 | 2 | 644 | 22 |
| 23 | 15 | | 25 | | | 8 | | | 30 | 2 | 626 | 23 |
| BY MONTH | 32 | | 27 | | | 10 | | | 31 | 2 | 15351 | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF OCTOBER

| HOUR | CUMULUS | | | | CIRRUS | | STRATUS | | ALTOCUMULUS | | ALTOSTRATUS | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------------|--------------|----------------|----------------|-------------|-------------|--------------|-------------|--|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRROCUMULUS | CIRROSTRATUS | FRAC TOCUMULUS | FRAC TOCUMULUS | ALTOCUMULUS | ALTOSTRATUS | NIMBOSTRATUS | | | | |
| | | | | | | | | | | | | | | |
| 0 | 3 | | 17 | 8 | 15 | | 1 | 672 | 0 | | | | | |
| 1 | 3 | | 15 | 7 | | | 1 | 672 | 1 | | | | | |
| 2 | 3 | | 18 | 10 | | | 1 | 674 | 2 | | | | | |
| 3 | 3 | | 15 | 8 | | | 1 | 675 | 3 | | | | | |
| 4 | 3 | | 15 | 9 | | | 1 | 675 | 4 | | | | | |
| 5 | 3 | | 18 | 11 | | | 3 | 674 | 5 | | | | | |
| 6 | 6 | | 31 | 15 | | | 2 | 676 | 6 | | | | | |
| 7 | 5 | | 29 | 16 | | | 3 | 674 | 7 | | | | | |
| 8 | 8 | | 35 | 18 | | | 3 | 675 | 8 | | | | | |
| 9 | 12 | | 31 | 14 | | | 2 | 675 | 9 | | | | | |
| 10 | 20 | | 32 | 14 | | | 2 | 673 | 10 | | | | | |
| 11 | 30 | | 26 | 14 | | | 3 | 676 | 11 | | | | | |
| 12 | 31 | | 33 | 10 | | | 2 | 673 | 12 | | | | | |
| 13 | 36 | | 32 | 9 | | | 2 | 671 | 13 | | | | | |
| 14 | 43 | | 36 | 11 | | | 2 | 670 | 14 | | | | | |
| 15 | 39 | | 34 | 8 | | | 3 | 674 | 15 | | | | | |
| 16 | 35 | | 35 | 8 | | | 3 | 671 | 16 | | | | | |
| 17 | 32 | | 39 | 11 | | | 4 | 654 | 17 | | | | | |
| 18 | 18 | | 30 | 9 | | | 3 | 651 | 18 | | | | | |
| 19 | 9 | | 25 | 9 | | | 2 | 671 | 19 | | | | | |
| 20 | 9 | | 25 | 9 | | | 2 | 666 | 20 | | | | | |
| 21 | 6 | | 21 | 8 | | | 1 | 666 | 21 | | | | | |
| 22 | 5 | | 20 | 8 | | | 1 | 662 | 22 | | | | | |
| 23 | 4 | | 21 | 11 | | | 2 | 647 | 23 | | | | | |
| BY MONTH | 15 | | 27 | 11 | | | 2 | 16067 | | | | | | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF NOVEMBER

| HOUR | CUMULUS | | | | STRATUS | | | ALTOSTRATUS | | | OBSERVATIONS | HOUR |
|----------|--------------|-----------------|--------------|--------------|---------------|---------------|---------------|-------------|--------------|--|--------------|------|
| | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRROCUMULUS | STRATOCUMULUS | FRACTOSTRATUS | FRACTOCUMULUS | ALTOCUMULUS | NIMBOSTRATUS | | | |
| 0 | 2 | | 22 | | 9 | | | 13 | 2 | | 635 | 0 |
| 1 | 1 | | 21 | | 8 | | | 13 | 3 | | 637 | 1 |
| 2 | 2 | | 24 | | 11 | | | 14 | 3 | | 637 | 2 |
| 3 | 1 | | 21 | | 9 | | | 12 | 2 | | 637 | 3 |
| 4 | 1 | | 21 | | 9 | | | 13 | 2 | | 638 | 4 |
| 5 | 1 | | 28 | | 12 | | | 16 | 3 | | 641 | 5 |
| 6 | 3 | | 37 | | 14 | | | 29 | 4 | | 636 | 6 |
| 7 | 4 | | 41 | | 17 | | | 31 | 4 | | 636 | 7 |
| 8 | 4 | | 48 | | 18 | | | 32 | 6 | | 634 | 8 |
| 9 | 7 | | 43 | | 15 | | | 26 | 5 | | 636 | 9 |
| 10 | 9 | | 45 | | 15 | | | 23 | 5 | | 636 | 10 |
| 11 | 12 | | 52 | | 18 | | | 27 | 6 | | 637 | 11 |
| 12 | 15 | | 47 | | 14 | | | 21 | 4 | | 634 | 12 |
| 13 | 16 | | 46 | | 14 | | | 21 | 4 | | 634 | 13 |
| 14 | 18 | | 53 | | 16 | | | 22 | 6 | | 633 | 14 |
| 15 | 15 | | 47 | | 14 | | | 21 | 5 | | 634 | 15 |
| 16 | 13 | | 46 | | 13 | | | 22 | 4 | | 634 | 16 |
| 17 | 11 | | 53 | | 16 | | | 26 | 6 | | 631 | 17 |
| 18 | 6 | | 38 | | 12 | | | 16 | 5 | | 615 | 18 |
| 19 | 4 | | 31 | | 9 | | | 14 | 4 | | 638 | 19 |
| 20 | 4 | | 36 | | 11 | | | 14 | 4 | | 637 | 20 |
| 21 | 3 | | 27 | | 8 | | | 12 | 3 | | 637 | 21 |
| 22 | 3 | | 25 | | 9 | | | 13 | 3 | | 637 | 22 |
| 23 | 3 | | 30 | | 10 | | | 15 | 2 | | 620 | 23 |
| BY MONTH | 7 | | 37 | | 12 | | | 19 | 4 | | 15224 | |

TABLE VII (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CLOUDINESS TYPES
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF DECEMBER

| HOUR | CUMULUS | | | | CIRRUS | | STRATUS | | | ALTOSTRATUS | | | OBSERVATIONS | HOUR |
|----------|---------|--------------|-----------------|--------------|--------------|-----------------|---------------|-----------------|-------------|-------------|--------------|--------------|--------------|------|
| | CUMULUS | CUMULONIMBUS | MAMMATO-CUMULUS | CIRROSTRATUS | CIRROCUMULUS | FRAC TO STRATUS | STRATOCUMULUS | FRAC TO STRATUS | ALTOSTRATUS | ALTOSTRATUS | NIMBOSTRATUS | OBSERVATIONS | | |
| 0 | 1 | | | 24 | | | 10 | | | 16 | | | 635 | 0 |
| 1 | 1 | | | 24 | | | 11 | | | 16 | | | 637 | 1 |
| 2 | 2 | | | 25 | | | 12 | | | 15 | | | 639 | 2 |
| 3 | 2 | | | 22 | | | 11 | | | 14 | | | 639 | 3 |
| 4 | 2 | | | 21 | | | 12 | | | 13 | | | 639 | 4 |
| 5 | 1 | | | 23 | | | 14 | | | 14 | | | 640 | 5 |
| 6 | 2 | | | 30 | | | 14 | | | 22 | | | 638 | 6 |
| 7 | 3 | | | 40 | | | 20 | | | 30 | | | 639 | 7 |
| 8 | 4 | | | 49 | | | 19 | | | 30 | | | 651 | 8 |
| 9 | 5 | | | 44 | | | 19 | | | 30 | | | 650 | 9 |
| 10 | 6 | | | 47 | | | 18 | | | 28 | | | 652 | 10 |
| 11 | 9 | | | 51 | | | 21 | | | 30 | | | 661 | 11 |
| 12 | 10 | | | 47 | | | 15 | | | 22 | | | 659 | 12 |
| 13 | 12 | | | 49 | | | 16 | | | 24 | | | 658 | 13 |
| 14 | 13 | | | 54 | | | 19 | | | 26 | | | 648 | 14 |
| 15 | 12 | | | 47 | | | 16 | | | 23 | | | 649 | 15 |
| 16 | 9 | | | 49 | | | 17 | | | 24 | | | 649 | 16 |
| 17 | 7 | | | 53 | | | 21 | | | 27 | | | 627 | 17 |
| 18 | 5 | | | 39 | | | 15 | | | 21 | | | 616 | 18 |
| 19 | 3 | | | 33 | | | 12 | | | 19 | | | 635 | 19 |
| 20 | 2 | | | 32 | | | 13 | | | 19 | | | 629 | 20 |
| 21 | 2 | | | 30 | | | 10 | | | 17 | | | 623 | 21 |
| 22 | 1 | | | 28 | | | 11 | | | 16 | | | 628 | 22 |
| 23 | 1 | | | 27 | | | 13 | | | 17 | | | 620 | 23 |
| BY MONTH | 5 | | | 37 | | | 15 | | | 21 | | | 15361 | |

SECTION IV

WEATHER

| | PAGE |
|---|------|
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TABLE VIII (a)

MONTHLY AND ANNUAL MEAN PRECIPITATION (INCHES) AT SEVEN WSMR SITES

| Site | A | WSD | JMN | SMR | APA | JAL | STA |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| Elevation | 4,238 | 3,989 | 4,070 | 3,999 | 3,956 | 4,051 | 4,940 |
| Period of Record | 1950-73 | 1963-73 | 1964-73 | 1964-73 | 1964-73 | 1966-73 | 1963-73 |
| Jan | 0.48 | 0.29 | 0.41 | 0.29 | 0.29 | 0.26 | 0.12 |
| Feb | 0.57 | 0.40 | 0.40 | 0.39 | 0.18 | 0.34 | 0.19 |
| Mar | 0.52 | 0.25 | 0.53 | 0.26 | 0.17 | 0.14 | 0.29 |
| Apr | 0.22 | 0.14 | 0.12 | 0.13 | 0.12 | 0.07 | 0.10 |
| May | 0.23 | 0.15 | 0.30 | 0.16 | 0.15 | 0.37 | 0.30 |
| Jun | 0.89 | 1.39 | 0.98 | 1.04 | 0.96 | 0.77 | 0.97 |
| Jul | 2.29 | 1.94 | 1.86 | 1.89 | 1.35 | 1.82 | 1.71 |
| Aug | 1.86 | 2.06 | 1.95 | 2.48 | 2.13 | 1.50 | 2.13 |
| Sep | 1.29 | 1.39 | 1.32 | 1.15 | 1.21 | 1.07 | 1.27 |
| Oct | 1.06 | 0.75 | 1.04 | 0.77 | 0.63 | 0.98 | 0.96 |
| Nov | 0.42 | 0.37 | 0.34 | 0.35 | 0.35 | 0.44 | 0.25 |
| Dec | 0.76 | 0.47 | 0.62 | 0.64 | 0.58 | 0.55 | 0.52 |
| Annual | 10.59 | 10.20 | 8.76 | 9.55 | 7.87 | 8.27 | 8.80 |

TABLE VIII (b)

ANNUAL RAINFALL (INCHES) BY YEARS AT "A" STATION
1950-1973

| Year | Rainfall | Year | Rainfall |
|------|----------|------|----------|
| 1950 | 6.41 | 1962 | 14.07 |
| 1951 | 7.08 | 1963 | 7.56 |
| 1952 | 9.32 | 1964 | 9.22 |
| 1953 | 5.30 | 1965 | 12.40 |
| 1954 | 5.91 | 1966 | 16.63 |
| 1955 | 9.27 | 1967 | 10.12 |
| 1956 | 3.92 | 1968 | 12.99 |
| 1957 | 10.37 | 1969 | 13.53 |
| 1958 | 20.02 | 1970 | 8.41 |
| 1959 | 11.45 | 1971 | 8.75 |
| 1960 | 11.25 | 1972 | 16.19 |
| 1961 | 12.62 | 1973 | 11.38 |

TABLE VIII (c)

MONTHLY AND ANNUAL PRECIPITATION MEANS AND EXTREMES (INCHES) AT "A" STATION
1950-1973

| Month | Mean | Greatest Monthly | Year | Greatest 24-Hour* Rainfall | Date |
|--------|-------|------------------|------|----------------------------|-------------|
| Jan | 0.48 | 1.50 | 1960 | 0.96 | 11-1960 |
| Feb | 0.57 | 1.74 | 1957 | 1.01 | 28-1953 |
| Mar | 0.52 | 3.00 | 1958 | 1.46 | 5, 6-1958 |
| Apr | 0.22 | 1.37 | 1952 | 0.95 | 11-1952 |
| May | 0.23 | 0.95 | 1959 | 0.82 | 23-1959 |
| Jun | 0.89 | 7.42 | 1966 | 2.40 | 29-1966 |
| Jul | 2.29 | 5.63 | 1962 | 2.50 | 14, 15-1973 |
| Aug | 1.86 | 6.32 | 1959 | 4.25 | 23, 24-1959 |
| Sep | 1.29 | 5.76 | 1958 | 2.96 | 11, 12-1964 |
| Oct | 1.06 | 3.65 | 1955 | 1.91 | 3, 4-1955 |
| Nov | 0.42 | 2.40 | 1961 | 0.89 | 8-1961 |
| Dec | 0.76 | 2.43 | 1965 | 1.00 | 14, 15-1967 |
| Annual | 10.59 | 20.02 | 1958 | | |

* Any consecutive 24-hour period.

TABLE VIII (d)

MONTHLY AND ANNUAL MEAN AND MAXIMUM SNOWFALL (INCHES) AT "A" STATION
1950-1973

| Month | Mean Snowfall | Maximum Snowfall | Date |
|--------|---------------|------------------|-------|
| Jan | 1.3 | 6.9 | 1972 |
| Feb | 1.5 | 8.6 | 1952 |
| Mar | 0.5 | 3.5 | 1958 |
| Apr | T | T | 1973* |
| May | 0.0 | 0.0 | |
| Jun | 0.0 | 0.0 | |
| Jul | 0.0 | 0.0 | |
| Aug | 0.0 | 0.0 | |
| Sep | 0.0 | 0.0 | |
| Oct | T | T | 1973* |
| Nov | 0.8 | 6.2 | 1961 |
| Dec | 2.4 | 14.9 | 1967 |
| Annual | 6.5 | 18.5 | 1960 |

* Trace also recorded in earlier years.

TABLE IX

MINIMUM, MAXIMUM, AND MEAN NUMBER OF DAYS PER MONTH FOR THE FOLLOWING WEATHER CONDITIONS

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

| MONTH | THUNDERSTORMS | | RAIN | | SNOW | | FOG | | DUST | | DAYS OBSERVED |
|-------|---------------|------|------|-----|------|-----|-----|------|------|-----|------------------|
| | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | |
| JAN | 2 | 0 | 0 | 9 | 4 | 0 | 6 | 1 | 0 | 4 | 678 |
| FEB | 2 | 0 | 0 | 13 | 4 | 0 | 4 | 1 | 0 | 7 | 623 |
| MAR | 2 | 1 | 0 | 14 | 5 | 0 | 4 | 1 | 0 | 12 | 679 |
| APR | 4 | 1 | 0 | 11 | 4 | 0 | 1 | 0 | 0 | 10 | 657 |
| MAY | 6 | 2 | 0 | 9 | 4 | 0 | 0 | 0 | 0 | 5 | 683 |
| JUN | 13 | 5 | 0 | 17 | 6 | 2 | 3 | 0 | 0 | 7 | 660 |
| JUL | 20 | 11 | 5 | 23 | 13 | 8 | 3 | 0 | 0 | 7 | 682 |
| AUG | 17 | 11 | 4 | 25 | 13 | 4 | 2 | 0 | 0 | 3 | 684 |
| SEP | 10 | 4 | 0 | 14 | 8 | 0 | 5 | 0 | 0 | 5 | 662 |
| OCT | 8 | 2 | 0 | 12 | 5 | 0 | 5 | 1 | 0 | 2 | 689 |
| NOV | 2 | 0 | 0 | 9 | 3 | 0 | 4 | 1 | 0 | 3 | 659 |
| DEC | 1 | 0 | 0 | 14 | 5 | 0 | 6 | 1 | 0 | 6 | 695 |

TABLE X

MINIMUM, MAXIMUM, AND MEAN DURATION IN HOURS OF THE FOLLOWING BY MONTH

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

| MONTH | THUNDERSTORMS | | | RAIN | | | SNOW | | | FOG | | | DUST | | | OBSERVATIONS |
|-------|---------------|------|-----|------|------|-----|------|------|-----|-----|------|-----|------|------|-----|--------------|
| | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | MAX | MEAN | MIN | |
| JAN | 2 | 0 | 0 | 77 | 15 | 0 | 37 | 11 | 0 | 50 | 6 | 0 | 10 | 3 | 0 | 15680 |
| FEB | 2 | 0 | 0 | 61 | 14 | 0 | 45 | 9 | 0 | 17 | 4 | 0 | 65 | 9 | 0 | 14372 |
| MAR | 2 | 1 | 0 | 53 | 15 | 0 | 22 | 5 | 0 | 12 | 1 | 0 | 78 | 12 | 0 | 15761 |
| APR | 7 | 1 | 0 | 35 | 8 | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 80 | 15 | 0 | 15082 |
| MAY | 12 | 3 | 0 | 17 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 29 | 6 | 0 | 15550 |
| JUN | 25 | 8 | 0 | 53 | 12 | 0 | 1 | 0 | 0 | 12 | 0 | 0 | 26 | 4 | 0 | 14870 |
| JUL | 55 | 20 | 8 | 67 | 28 | 14 | 0 | 0 | 0 | 10 | 1 | 0 | 9 | 2 | 0 | 15544 |
| AUG | 45 | 20 | 4 | 72 | 26 | 8 | 1 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 15750 |
| SEP | 18 | 8 | 0 | 68 | 19 | 0 | 0 | 0 | 0 | 15 | 1 | 0 | 8 | 1 | 0 | 15227 |
| OCT | 10 | 2 | 0 | 45 | 16 | 0 | 4 | 0 | 0 | 8 | 1 | 0 | 13 | 2 | 0 | 15978 |
| NOV | 4 | 0 | 0 | 55 | 13 | 0 | 30 | 5 | 0 | 32 | 3 | 0 | 24 | 3 | 0 | 15124 |
| DEC | 1 | 0 | 0 | 71 | 16 | 0 | 47 | 9 | 0 | 89 | 7 | 0 | 20 | 2 | 0 | 15237 |

TABLE XI
DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF "EATHER CONDITIONS
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

| MONTH OF JANUARY | | | | | | | | | | | | | OBSERVATIONS | HOUR |
|-------------------|------|------|------|------------------|-----|------|-------|---|--|--|--|--|--------------|------|
| THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | | | | | | | | |
| 0 | 2 | 2 | 0 | 0 | 1 | 0 | 650 | 0 | | | | | | |
| 1 | 2 | 1 | 0 | 0 | 1 | 0 | 656 | 0 | | | | | | |
| 2 | 3 | 2 | 0 | 0 | 2 | 0 | 656 | 0 | | | | | | |
| 3 | 2 | 2 | 0 | 0 | 1 | 0 | 656 | 0 | | | | | | |
| 4 | 3 | 2 | 0 | 0 | 1 | 0 | 656 | 0 | | | | | | |
| 5 | 2 | 1 | 0 | 0 | 1 | 0 | 657 | 0 | | | | | | |
| 6 | 3 | 2 | 0 | 0 | 1 | 0 | 660 | 0 | | | | | | |
| 7 | 2 | 2 | 0 | 0 | 1 | 0 | 663 | 0 | | | | | | |
| 8 | 2 | 2 | 0 | 0 | 2 | 0 | 662 | 0 | | | | | | |
| 9 | 2 | 2 | 0 | 0 | 2 | 0 | 663 | 0 | | | | | | |
| 10 | 3 | 2 | 0 | 0 | 2 | 1 | 662 | 1 | | | | | | |
| 11 | 3 | 2 | 0 | 0 | 1 | 0 | 663 | 0 | | | | | | |
| 12 | 2 | 2 | 0 | 0 | 1 | 1 | 659 | 1 | | | | | | |
| 13 | 2 | 2 | 0 | 0 | 0 | 1 | 660 | 1 | | | | | | |
| 14 | 3 | 2 | 0 | 0 | 1 | 1 | 661 | 1 | | | | | | |
| 15 | 3 | 1 | 0 | 0 | 1 | 2 | 661 | 2 | | | | | | |
| 16 | 3 | 1 | 0 | 0 | 0 | 1 | 660 | 1 | | | | | | |
| 17 | 2 | 1 | 0 | 0 | 0 | 1 | 649 | 1 | | | | | | |
| 18 | 2 | 1 | 0 | 0 | 0 | 1 | 640 | 1 | | | | | | |
| 19 | 2 | 2 | 0 | 0 | 0 | 1 | 638 | 1 | | | | | | |
| 20 | 1 | 2 | 0 | 0 | 0 | 1 | 640 | 1 | | | | | | |
| 21 | 2 | 2 | 0 | 0 | 0 | 0 | 639 | 0 | | | | | | |
| 22 | 2 | 2 | 0 | 0 | 0 | 0 | 640 | 0 | | | | | | |
| 23 | 2 | 2 | 0 | 0 | 0 | 0 | 641 | 0 | | | | | | |
| BY MONTH | 2 | 2 | 0 | 0 | 1 | 0 | 15692 | 0 | | | | | | |

TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF FEBRUARY

| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------|-------------------|------|------|------|------------------|-----|------|--------------|------|
| 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 603 | 0 |
| 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 604 | 1 |
| 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 603 | 2 |
| 3 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 603 | 3 |
| 4 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 604 | 4 |
| 5 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 605 | 5 |
| 6 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 603 | 6 |
| 7 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 604 | 7 |
| 8 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 603 | 8 |
| 9 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 604 | 9 |
| 10 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 604 | 10 |
| 11 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 604 | 11 |
| 12 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 605 | 12 |
| 13 | 0 | 3 | 2 | 0 | 0 | 0 | 3 | 604 | 13 |
| 14 | 0 | 3 | 2 | 0 | 0 | 0 | 4 | 604 | 14 |
| 15 | 0 | 2 | 2 | 0 | 0 | 0 | 3 | 605 | 15 |
| 16 | 0 | 2 | 2 | 0 | 0 | 0 | 3 | 604 | 16 |
| 17 | 0 | 2 | 1 | 0 | 0 | 1 | 3 | 594 | 17 |
| 18 | 0 | 3 | 1 | 0 | 0 | 1 | 2 | 586 | 18 |
| 19 | 0 | 2 | 1 | 0 | 0 | 1 | 2 | 585 | 19 |
| 20 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 585 | 20 |
| 21 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 586 | 21 |
| 22 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 586 | 22 |
| 23 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 584 | 23 |
| BY MONTH | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 14372 | |

TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

| MONTH OF MARCH | | | | | | | | | | | |
|----------------|-------------------|------|------|------|----------|---|-----|------|--------------|------|--|
| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING | | FOG | DUST | OBSERVATIONS | HOUR | |
| | | | | | RAIN | | | | | | |
| 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 0 | |
| 1 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 605 | 1 | |
| 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 664 | 2 | |
| 3 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 605 | 3 | |
| 4 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 665 | 4 | |
| 5 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 665 | 5 | |
| 6 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 663 | 6 | |
| 7 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 7 | |
| 8 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 663 | 8 | |
| 9 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 664 | 9 | |
| 10 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 664 | 10 | |
| 11 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 662 | 11 | |
| 12 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 3 | 665 | 12 | |
| 13 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 3 | 662 | 13 | |
| 14 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 663 | 14 | |
| 15 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 5 | 663 | 15 | |
| 16 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 664 | 16 | |
| 17 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 647 | 17 | |
| 18 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 636 | 18 | |
| 19 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 638 | 19 | |
| 20 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 639 | 20 | |
| 21 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 640 | 21 | |
| 22 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 638 | 22 | |
| 23 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 638 | 23 | |
| BY MONTH | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 15761 | | |

TABLE A1 (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951 - 1973

MONTH OF APRIL

| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------|-------------------|------|------|------|------------------|-----|------|--------------|------|
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 640 | 0 |
| 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 641 | 1 |
| 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 641 | 2 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 640 | 3 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 641 | 4 |
| 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 5 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 642 | 6 |
| 7 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 641 | 7 |
| 8 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 642 | 8 |
| 9 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 641 | 9 |
| 10 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 641 | 10 |
| 11 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 640 | 11 |
| 12 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 640 | 12 |
| 13 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 642 | 13 |
| 14 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 641 | 14 |
| 15 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 640 | 15 |
| 16 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 641 | 16 |
| 17 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 607 | 17 |
| 18 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 599 | 18 |
| 19 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 597 | 19 |
| 20 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 599 | 20 |
| 21 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 598 | 21 |
| 22 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 596 | 22 |
| 23 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 598 | 23 |
| BY MONTH | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1508 | |

TABLE XI. (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF MAY

| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------|-------------------|------|------|------|------------------|-----|------|--------------|------|
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 651 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 651 | 1 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 653 | 2 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 653 | 3 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 666 | 4 |
| 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 666 | 5 |
| 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 6 |
| 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 7 |
| 8 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 665 | 8 |
| 9 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 663 | 9 |
| 10 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 665 | 10 |
| 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 11 |
| 12 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 665 | 12 |
| 13 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 664 | 13 |
| 14 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 665 | 14 |
| 15 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 664 | 15 |
| 16 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 665 | 16 |
| 17 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 631 | 17 |
| 18 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 622 | 18 |
| 19 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 622 | 19 |
| 20 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 608 | 20 |
| 21 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 606 | 21 |
| 22 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 607 | 22 |
| 23 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 606 | 23 |
| BY MONTH | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1550 | |

TABLE XI. (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF JUNE

| HOUR | THUNDER STORMS | RAIP. | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------|-------------------|-------|------|------|------------------|-----|------|--------------|------|
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 590 | 0 |
| 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 611 | 1 |
| 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 609 | 2 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 611 | 3 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 643 | 4 |
| 5 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 642 | 5 |
| 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 6 |
| 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 641 | 7 |
| 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 8 |
| 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 641 | 9 |
| 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 10 |
| 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 642 | 11 |
| 12 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 642 | 12 |
| 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 13 |
| 14 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 639 | 14 |
| 15 | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 638 | 15 |
| 16 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 641 | 16 |
| 17 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 629 | 17 |
| 18 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 602 | 18 |
| 19 | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 601 | 19 |
| 20 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 572 | 20 |
| 21 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 572 | 21 |
| 22 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 571 | 22 |
| 23 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 573 | 23 |
| BY MONTH | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 14870 | |

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TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
BY MONTH AND BY HOUR (IN PERCENT)
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

MONTH OF JULY

| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------|-------------------|------|------|------|------------------|-----|------|--------------|------|
| 0 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 628 | 0 |
| 1 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 654 | 1 |
| 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 654 | 2 |
| 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 654 | 3 |
| 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 655 | 4 |
| 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 664 | 5 |
| 6 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 663 | 6 |
| 7 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 663 | 7 |
| 8 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 662 | 8 |
| 9 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 663 | 9 |
| 10 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 663 | 10 |
| 11 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 663 | 11 |
| 12 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 665 | 12 |
| 13 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 665 | 13 |
| 14 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 663 | 14 |
| 15 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 663 | 15 |
| 16 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 663 | 16 |
| 17 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 649 | 17 |
| 18 | 7 | 6 | 0 | 0 | 0 | 0 | 1 | 621 | 18 |
| 19 | 7 | 6 | 0 | 0 | 0 | 0 | 1 | 619 | 19 |
| 20 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 609 | 20 |
| 21 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 610 | 21 |
| 22 | 4 | 6 | 0 | 0 | 0 | 0 | 1 | 611 | 22 |
| 23 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 610 | 23 |
| BY MONTH | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 15544 | |

TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

| MONTH OF AUGUST | | | | | | | | | | | |
|-----------------|-------------------|------|------|------|------------------|-----|------|--------------|------|--|--|
| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR | | |
| 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 656 | 0 | | |
| 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 666 | 1 | | |
| 2 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 666 | 2 | | |
| 3 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 665 | 3 | | |
| 4 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 666 | 4 | | |
| 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 664 | 5 | | |
| 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 662 | 6 | | |
| 7 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 665 | 7 | | |
| 8 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 665 | 8 | | |
| 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 665 | 9 | | |
| 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 664 | 10 | | |
| 11 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 666 | 11 | | |
| 12 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 665 | 12 | | |
| 13 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 666 | 13 | | |
| 14 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 664 | 14 | | |
| 15 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 665 | 15 | | |
| 16 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 665 | 16 | | |
| 17 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 648 | 17 | | |
| 18 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 635 | 18 | | |
| 19 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 635 | 19 | | |
| 20 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 634 | 20 | | |
| 21 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 635 | 21 | | |
| 22 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 635 | 22 | | |
| 23 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 633 | 23 | | |
| BY MONTH | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 15750 | | | |

TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

MONTH OF SEPTEMBER

| THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR |
|-------------------|------|------|------|------------------|-----|------|--------------|------|
| 0 | 3 | 0 | 0 | 0 | 0 | 0 | 642 | 0 |
| 1 | 2 | 0 | 0 | 0 | 0 | 0 | 640 | 1 |
| 2 | 3 | 0 | 0 | 0 | 0 | 0 | 638 | 2 |
| 3 | 3 | 0 | 0 | 0 | 0 | 0 | 640 | 3 |
| 4 | 4 | 0 | 0 | 0 | 0 | 0 | 641 | 4 |
| 5 | 3 | 0 | 0 | 0 | 0 | 0 | 641 | 5 |
| 6 | 3 | 0 | 0 | 0 | 0 | 0 | 639 | 6 |
| 7 | 3 | 0 | 0 | 0 | 1 | 0 | 637 | 7 |
| 8 | 2 | 0 | 0 | 0 | 0 | 0 | 637 | 8 |
| 9 | 2 | 0 | 0 | 0 | 0 | 0 | 637 | 9 |
| 10 | 3 | 0 | 0 | 0 | 0 | 0 | 638 | 10 |
| 11 | 2 | 0 | 0 | 0 | 0 | 0 | 638 | 11 |
| 12 | 2 | 0 | 0 | 0 | 0 | 0 | 640 | 12 |
| 13 | 3 | 0 | 0 | 0 | 0 | 0 | 641 | 13 |
| 14 | 2 | 0 | 0 | 0 | 0 | 0 | 640 | 14 |
| 15 | 3 | 0 | 0 | 0 | 0 | 0 | 638 | 15 |
| 16 | 3 | 0 | 0 | 0 | 0 | 0 | 640 | 16 |
| 17 | 3 | 0 | 0 | 0 | 0 | 0 | 630 | 17 |
| 18 | 4 | 0 | 0 | 0 | 0 | 0 | 621 | 18 |
| 19 | 4 | 0 | 0 | 0 | 0 | 0 | 623 | 19 |
| 20 | 5 | 0 | 0 | 0 | 0 | 0 | 621 | 20 |
| 21 | 4 | 0 | 0 | 0 | 0 | 0 | 620 | 21 |
| 22 | 4 | 0 | 0 | 0 | 0 | 0 | 622 | 22 |
| 23 | 3 | 0 | 0 | 0 | 0 | 0 | 623 | 23 |
| BY MONTH | 1 | 0 | 0 | 0 | 0 | 0 | 15227 | |

TABLE XI (CONT.)
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

| MONTH OF OCTOBER | | | | | | | | | | | |
|------------------|-------------------|------|------|------|------------------|-----|------|--------------|------|--|--|
| HOUR | THUNDER STORMS | RAIN | SNOW | WAIL | FREEZING RAIN | FOG | DUST | OBSERVATIONS | HOUR | | |
| 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 672 | 0 | | |
| 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 672 | 1 | | |
| 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 674 | 2 | | |
| 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 673 | 3 | | |
| 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 673 | 4 | | |
| 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 672 | 5 | | |
| 6 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 676 | 6 | | |
| 7 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 674 | 7 | | |
| 8 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 675 | 8 | | |
| 9 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 675 | 9 | | |
| 10 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 673 | 10 | | |
| 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 676 | 11 | | |
| 12 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 673 | 12 | | |
| 13 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 671 | 13 | | |
| 14 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 670 | 14 | | |
| 15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 673 | 15 | | |
| 16 | 1 | 3 | 0 | 0 | 0 | 0 | 1 | 670 | 16 | | |
| 17 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 651 | 17 | | |
| 18 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 647 | 18 | | |
| 19 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 648 | 19 | | |
| 20 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 647 | 20 | | |
| 21 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 649 | 21 | | |
| 22 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 647 | 22 | | |
| 23 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 647 | 23 | | |
| BY MONTH | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 15978 | | | |

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
 BY MONTH AND BY HOUR (IN PERCENT)
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
 PERIOD OF RECORD 1951 - 1973

TABLE XI (CONT)

MONTH OF NOVEMBER

| HOUR | THUNDER | | RAIN | SNOW | FREEZING | | FOG | DUST | OBSERVATIONS | HOUR |
|----------|---------|---|------|------|----------|------|-----|------|--------------|------|
| | STORMS | | | | TAIL | RAIN | | | | |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 635 | 0 |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 637 | 1 |
| 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 637 | 2 |
| 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 636 | 3 |
| 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 637 | 4 |
| 5 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 640 | 5 |
| 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 636 | 6 |
| 7 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 636 | 7 |
| 8 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 634 | 8 |
| 9 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 636 | 9 |
| 10 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 636 | 10 |
| 11 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 637 | 11 |
| 12 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 634 | 12 |
| 13 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 634 | 13 |
| 14 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 633 | 14 |
| 15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 634 | 15 |
| 16 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 633 | 16 |
| 17 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 630 | 17 |
| 18 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 18 |
| 19 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 615 | 19 |
| 20 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 614 | 20 |
| 21 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 614 | 21 |
| 22 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 613 | 22 |
| 23 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 618 | 23 |
| BY MONTH | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 15124 | |

TABLE XI (CONT)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WEATHER CONDITIONS
BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO
PERIOD OF RECORD 1951 - 1973

| MONTH OF DECEMBER | | | | | | | | | | | |
|-------------------|-------------------|------|------|------|----------|---|-----|------|--------------|------|--|
| HOUR | THUNDER STORMS | RAIN | SNOW | HAIL | FREEZING | | FOG | DUST | OBSERVATIONS | HOUR | |
| | | | | | RAIN | | | | | | |
| 0 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 634 | 0 | |
| 1 | 0 | 2 | 2 | 0 | 0 | 1 | 1 | 1 | 637 | 1 | |
| 2 | 0 | 4 | 1 | 0 | 0 | 1 | 1 | 0 | 638 | 2 | |
| 3 | 0 | 3 | 1 | 0 | 0 | 2 | 2 | 0 | 638 | 3 | |
| 4 | 0 | 3 | 1 | 0 | 0 | 2 | 2 | 0 | 638 | 4 | |
| 5 | 0 | 3 | 1 | 0 | 0 | 2 | 2 | 1 | 639 | 5 | |
| 6 | 0 | 3 | 2 | 0 | 0 | 2 | 2 | 0 | 638 | 6 | |
| 7 | 0 | 3 | 1 | 0 | 0 | 2 | 2 | 0 | 639 | 7 | |
| 8 | 0 | 2 | 3 | 0 | 0 | 2 | 2 | 0 | 650 | 8 | |
| 9 | 0 | 3 | 2 | 0 | 0 | 2 | 2 | 0 | 648 | 9 | |
| 10 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 648 | 10 | |
| 11 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 650 | 11 | |
| 12 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 645 | 12 | |
| 13 | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 646 | 13 | |
| 14 | 0 | 4 | 1 | 0 | 0 | 1 | 1 | 0 | 645 | 14 | |
| 15 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 1 | 646 | 15 | |
| 16 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 1 | 645 | 16 | |
| 17 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 622 | 17 | |
| 18 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 616 | 18 | |
| 19 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 616 | 19 | |
| 20 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 614 | 20 | |
| 21 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 612 | 21 | |
| 22 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 615 | 22 | |
| 23 | 0 | 3 | 2 | 0 | 0 | 1 | 1 | 0 | 618 | 23 | |
| BY MONTH | 0 | 3 | 2 | 0 | 0 | 1 | 1 | 0 | 15237 | | |

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